

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533328

Luminaire Tested: **GALN-SA8D-730-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533328
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-730-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48219 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

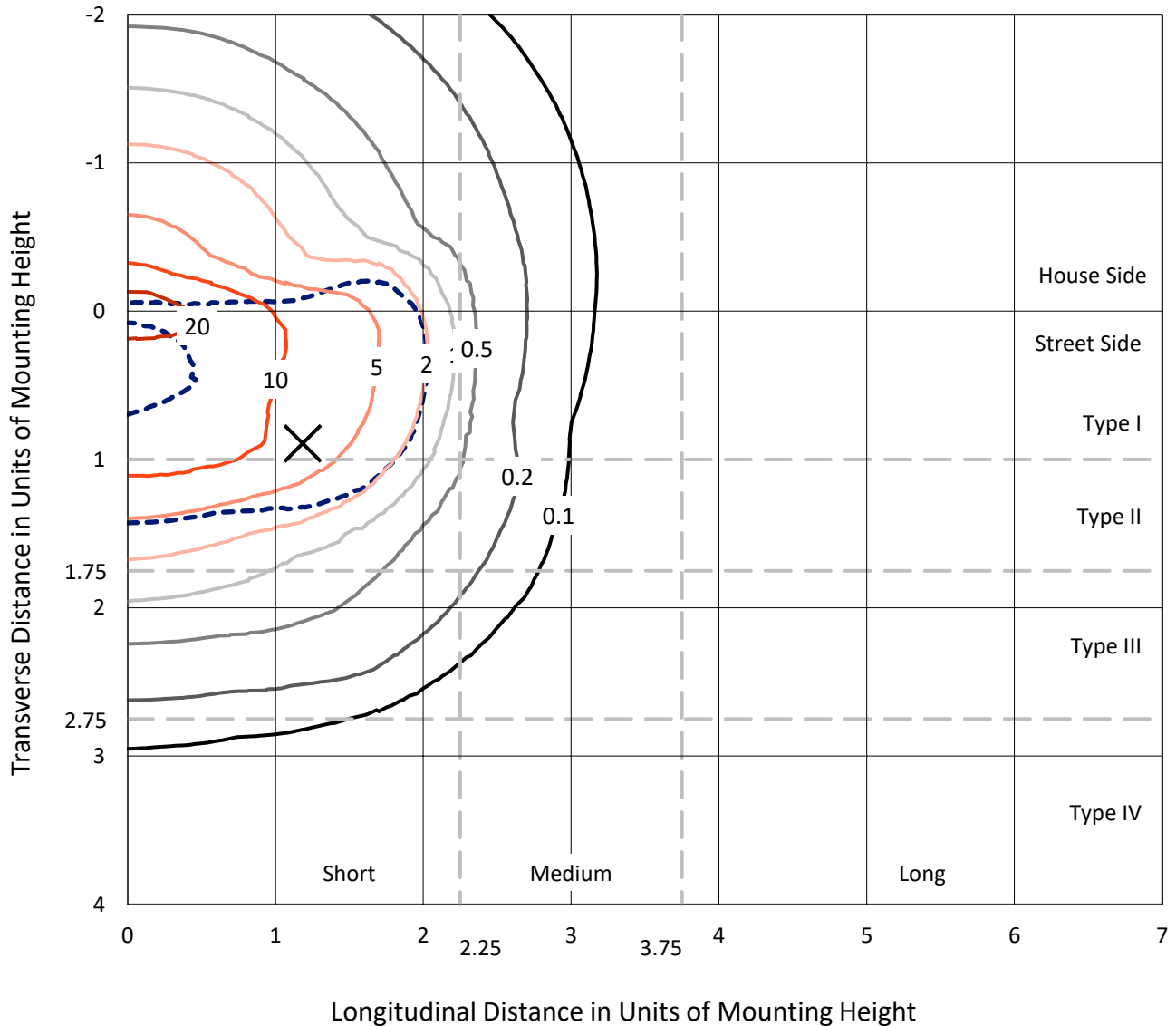
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

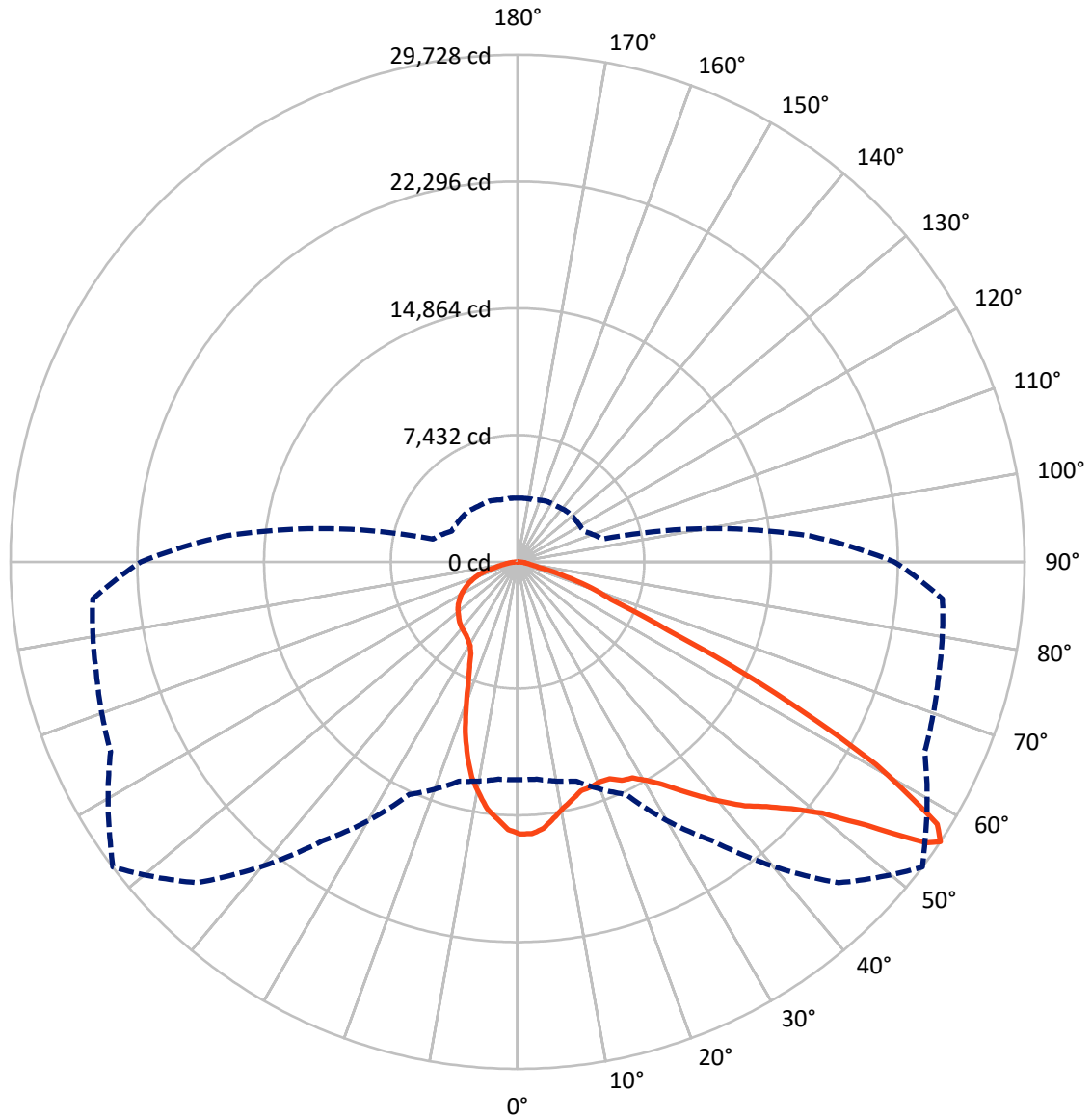
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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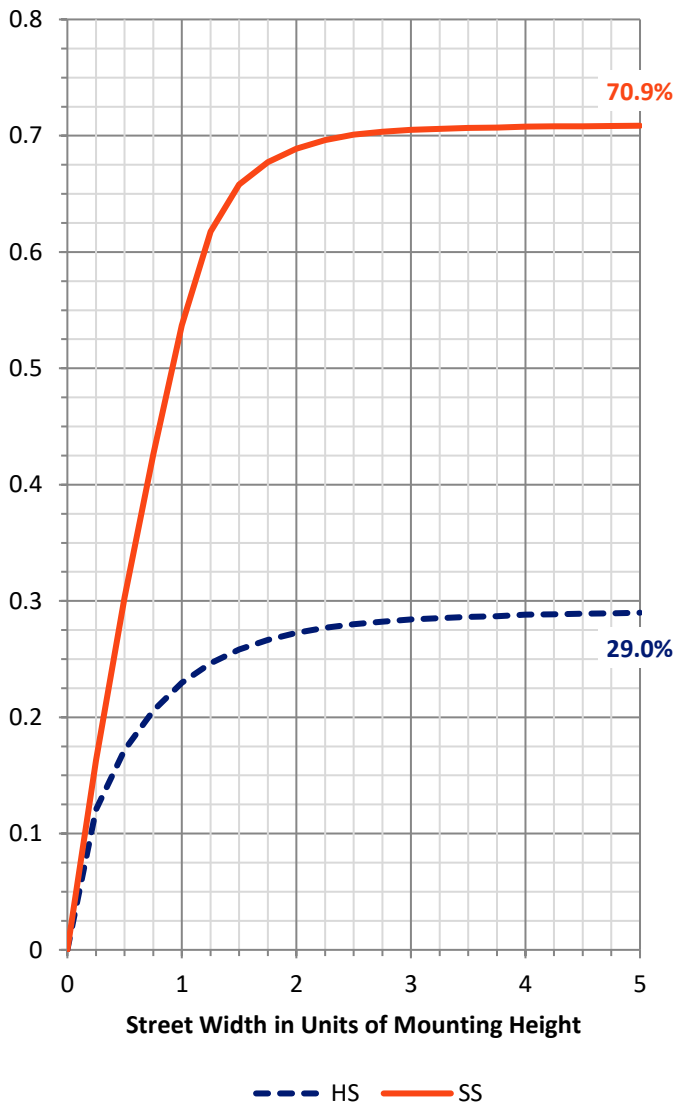
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14071.4	0.0	14071.4
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	34147.6	0.0	34147.6
	% Fixture	70.8	0.0	70.8
Total	Lumens	48219.0	0.0	48219.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1412.3	2.9
10°-20°	3527.2	7.3
20°-30°	5201.2	10.8
30°-40°	7431.6	15.4
40°-50°	10228.5	21.2
50°-60°	12087.4	25.1
60°-70°	6441.8	13.4
70°-80°	1634.2	3.4
80°-90°	254.8	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48219.0	100.0
0°-180°	48219.0	100.0

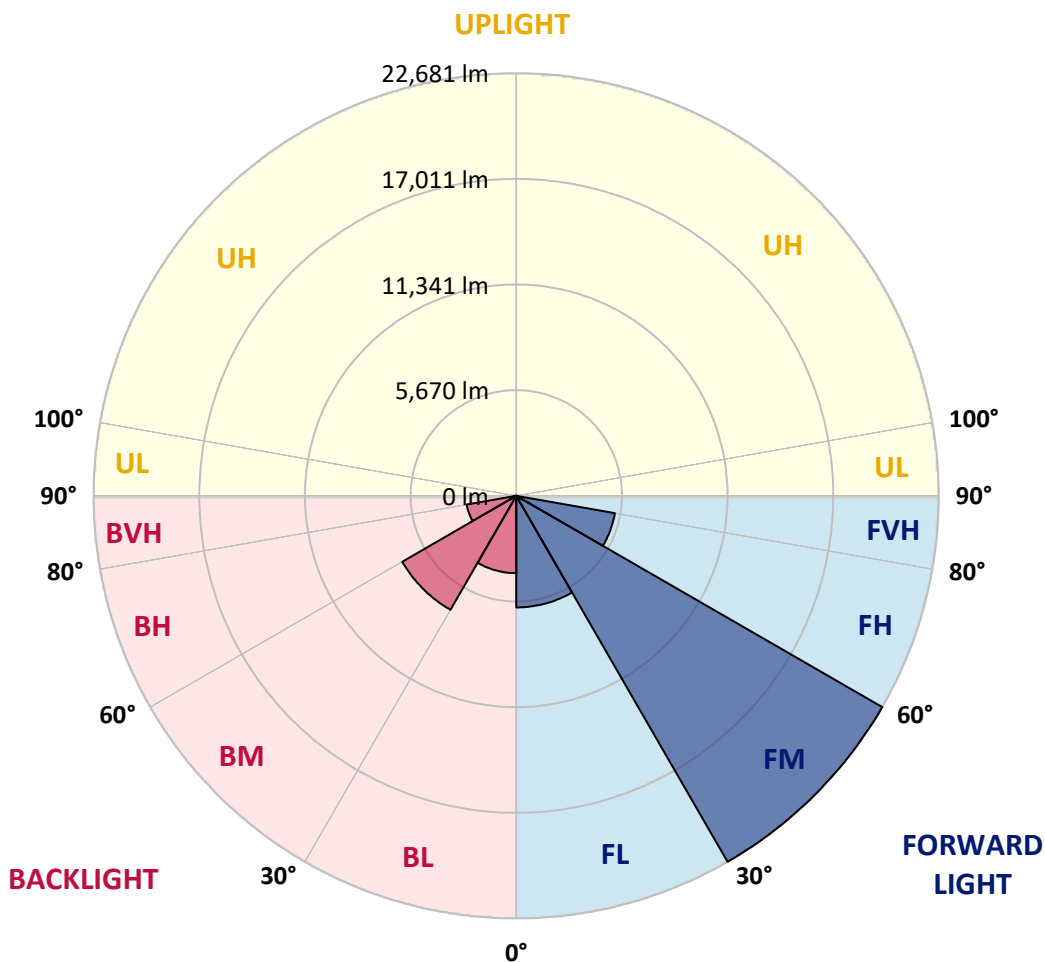


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5990.5	12.4			
FM (30°-60°)	22681.3	47.0			
FH (60°-80°)	5373.4	11.1			G3/7500
FVH (80°-90°)	102.4	0.2			G2/225
BL (0°-30°)	4150.2	8.6	B4/5000		
BM (30°-60°)	7066.2	14.7	B4/8500		
BH (60°-80°)	2702.6	5.6	B4/5000		G4/5000
BVH (80°-90°)	152.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7
2.5°	15754.8	15618.7	15699.1	15668.2	15921.8	15996.0	15958.9	15989.9	16132.1	16064.1	15921.8
5°	14721.8	14913.6	14950.7	15043.5	15191.9	15482.6	15711.5	15773.4	15841.4	16156.9	16125.9
7.5°	13781.6	13911.5	13843.4	14115.6	14437.3	14907.4	15185.7	15235.2	15860.0	16033.2	16163.1
10°	13187.8	13057.9	13367.2	13441.4	13806.3	14344.5	14678.5	14882.6	15451.7	16138.3	16218.7
12.5°	12637.2	12593.9	12779.5	12989.8	13398.1	13954.8	14295.0	14375.4	15253.8	15977.5	16354.8
15°	12229.0	12179.5	12365.1	12519.7	12996.0	13490.9	13923.9	14152.7	15037.3	15884.7	16237.3
17.5°	11907.3	11901.2	12006.3	12284.7	12773.3	13187.8	13886.7	13899.1	14925.9	16027.0	16336.3
20°	11888.8	11882.6	11901.2	12210.4	12655.8	13163.0	13769.2	13880.6	14925.9	15928.0	16342.4
22.5°	12043.4	11944.5	12055.8	12253.7	12575.4	13206.3	13812.5	14059.9	15284.7	16416.7	16620.8
25°	12290.9	12315.6	12377.5	12445.5	12631.1	13305.3	14196.0	14400.2	15705.3	16837.3	17004.3
27.5°	12742.4	12730.0	12754.8	12791.9	12952.7	13398.1	14350.7	14876.4	16583.7	17585.8	17418.7
30°	13404.3	13361.0	13459.9	13589.8	13441.4	13695.0	14864.1	15260.0	17400.2	18340.4	17882.7
32.5°	14004.3	14165.1	14350.7	14406.3	14227.0	14276.4	15544.5	15946.6	18080.6	19268.2	18451.7
35°	14752.7	14882.6	15130.1	15303.3	15272.3	15123.9	16472.3	17004.3	19064.1	19948.7	19051.7
37.5°	15482.6	15637.3	16045.5	16558.9	16274.4	16206.4	17462.0	17901.2	19367.2	20313.6	19490.9
40°	16657.9	16651.7	17356.9	17622.9	17876.5	17759.0	18488.9	18637.3	19528.0	20233.2	19503.3
42.5°	18037.3	17950.7	18668.2	19082.7	19410.5	19422.9	19559.0	19509.5	19602.3	19825.0	19373.4
45°	19348.7	19534.2	20257.9	21000.2	21328.1	21365.2	20462.1	20369.3	19732.2	19707.4	19126.0
47.5°	20950.7	20994.0	21587.9	22565.2	23326.0	23066.2	21631.2	21427.0	20301.2	20493.0	19540.4
50°	21043.5	21365.2	21897.1	23047.7	25385.8	25317.8	23146.6	22763.1	21216.7	21606.4	20697.1
52.5°	19101.2	19027.0	19657.9	21538.4	25231.2	27557.0	25658.0	24742.5	23183.7	22886.8	22571.4
55°	14554.8	14728.0	15284.7	17183.7	21909.5	27587.9	29078.7	28330.2	25286.9	24779.6	24414.7
56°	12767.1	12791.9	13317.7	15049.6	19992.0	26604.4	29728.1	29122.0	26332.2	25559.0	25002.3
57.5°	10583.6	10441.3	10713.5	11659.9	16874.4	24526.0	29016.8	29610.6	27557.0	26400.3	25627.1
60°	8332.0	8301.1	8189.8	8363.0	10664.0	18476.5	24154.9	25491.0	27433.3	25608.5	24544.6
62.5°	6804.2	6649.6	6872.2	7119.7	7410.4	11462.0	16973.4	17759.0	21779.6	20443.5	18439.4
65°	5276.3	5202.1	5480.5	6284.6	6457.8	7280.5	9668.1	10274.3	12859.9	12631.1	11121.8
67.5°	3631.0	3643.3	3884.6	5109.3	5987.7	5913.5	5919.7	6235.1	6711.4	4985.6	4342.3
70°	2301.1	2294.9	2424.8	3290.8	4818.6	4868.1	4620.7	4527.9	4292.8	2598.0	2752.6
72.5°	1478.4	1435.1	1503.1	1818.6	2492.8	2882.5	2969.1	3024.8	2486.6	2041.3	2214.5
75°	835.1	791.8	767.0	847.4	983.5	1138.2	1249.5	1286.6	1441.3	1546.4	1639.2
77.5°	253.6	228.9	278.4	371.1	488.7	655.7	797.9	822.7	971.1	1094.9	1187.6
80°	111.3	123.7	173.2	247.4	346.4	463.9	562.9	600.0	699.0	791.8	816.5
82.5°	68.0	74.2	117.5	167.0	241.2	327.8	402.1	414.4	513.4	587.6	606.2
85°	24.7	30.9	61.9	99.0	154.6	210.3	210.3	228.9	210.3	210.3	228.9
87.5°	0.0	0.0	6.2	12.4	12.4	18.6	24.7	24.7	30.9	37.1	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7	15952.7
2.5°	15996.0	15965.1	15915.6	15736.2	15717.7	15662.0	15352.7	15303.3	15352.7	15204.3	15216.7
5°	15965.1	16057.9	15686.8	15507.4	15173.4	14932.1	14653.8	14511.5	14257.9	14097.1	14276.4
7.5°	16101.2	16064.1	15600.2	15210.5	14709.4	14097.1	13608.4	13330.0	12884.7	12761.0	12853.7
10°	16051.7	15853.8	15309.4	14796.0	13849.6	13311.5	12519.7	11752.7	11332.1	11115.6	11084.7
12.5°	15983.7	15928.0	15018.7	14134.2	13138.3	12006.3	10892.9	10169.2	9482.6	9185.7	9229.0
15°	16064.1	15594.0	14474.4	13354.8	12031.1	10546.5	9346.5	8412.5	7936.2	7744.4	7744.4
17.5°	16027.0	15433.2	14214.6	12482.6	10806.3	9049.6	7732.0	7169.1	6971.2	6971.2	7026.9
20°	16045.5	15538.3	13688.8	11610.4	9358.9	7620.7	6661.9	6457.8	6544.4	6575.3	6606.3
22.5°	16150.7	15191.9	13175.4	10651.7	8016.6	6519.7	6049.5	6055.7	6210.4	6377.4	6346.5
25°	16280.6	15055.8	12550.6	9699.1	6989.8	5981.5	5833.1	5814.5	5932.0	6018.6	6031.0
27.5°	16169.2	14820.8	11913.5	8511.4	6148.5	5622.7	5591.8	5604.2	5641.3	5814.5	5758.8
30°	16534.2	14888.8	11115.6	7515.5	5684.6	5505.2	5468.1	5449.5	5505.2	5554.7	5511.4
32.5°	16985.7	14647.6	10521.8	6556.8	5455.7	5418.6	5344.4	5319.6	5350.6	5301.1	5325.8
35°	17183.7	14604.3	9748.6	5870.2	5276.3	5245.4	5202.1	5195.9	5202.1	5158.8	5121.7
37.5°	17295.0	14808.4	8864.0	5554.7	5165.0	5195.9	5097.0	5084.6	4973.2	4998.0	5016.5
40°	17486.8	14492.9	8146.5	5251.6	5097.0	5035.1	4948.5	4929.9	4855.7	4812.4	4855.7
42.5°	17208.4	14400.2	7441.3	5121.7	4998.0	4929.9	4868.1	4762.9	4738.2	4701.1	4676.3
45°	16985.7	13868.2	6810.4	4960.9	4880.5	4843.4	4725.8	4614.5	4521.7	4558.8	4503.1
47.5°	17152.8	13682.6	6185.6	4824.8	4719.6	4676.3	4558.8	4472.2	4379.4	4336.1	4323.8
50°	17820.8	14029.0	5659.9	4725.8	4583.6	4558.8	4404.2	4305.2	4218.6	4187.7	4200.0
52.5°	19416.7	14975.4	5301.1	4521.7	4453.7	4342.3	4255.7	4132.0	4076.3	3977.4	4039.2
55°	21439.4	16515.6	5208.3	4329.9	4292.8	4193.9	4076.3	3983.5	3878.4	3798.0	3779.4
56°	22088.9	17251.7	5134.1	4255.7	4193.9	4138.2	3983.5	3927.9	3760.9	3742.3	3729.9
57.5°	22614.7	17901.2	5146.4	4113.4	4051.6	4002.1	3909.3	3773.2	3661.9	3593.9	3624.8
60°	21427.0	16756.9	4911.4	3896.9	3884.6	3791.8	3661.9	3600.0	3464.0	3383.5	3365.0
62.5°	15928.0	11375.4	3983.5	3618.6	3612.4	3513.4	3365.0	3296.9	3272.2	3160.9	3160.9
65°	9173.3	7132.0	3445.4	3389.7	3340.2	3241.3	3092.8	3037.1	2975.3	2938.2	2907.2
67.5°	3915.5	3699.0	3129.9	3123.7	3068.1	2944.4	2795.9	2709.3	2628.9	2554.7	2591.8
70°	2839.2	2882.5	2826.8	2795.9	2727.9	2573.2	2443.3	2338.2	2214.5	2165.0	2202.1
72.5°	2251.6	2344.4	2424.8	2431.0	2350.5	2171.2	2028.9	1886.6	1750.5	1682.5	1713.4
75°	1707.2	1769.1	1849.5	1868.1	1750.5	1626.8	1490.7	1342.3	1237.1	1156.7	1169.1
77.5°	1230.9	1218.6	1292.8	1280.4	1224.8	1138.2	1014.4	878.4	760.8	686.6	692.8
80°	841.2	859.8	903.1	896.9	828.9	773.2	680.4	569.1	482.5	420.6	408.3
82.5°	587.6	618.6	655.7	624.7	569.1	513.4	445.4	365.0	296.9	247.4	235.1
85°	210.3	241.2	278.4	296.9	315.5	303.1	253.6	204.1	148.5	123.7	117.5
87.5°	43.3	49.5	55.7	55.7	55.7	49.5	43.3	43.3	37.1	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)