

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: P651535

Luminaire Tested: **GALN-SA7D-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39557.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

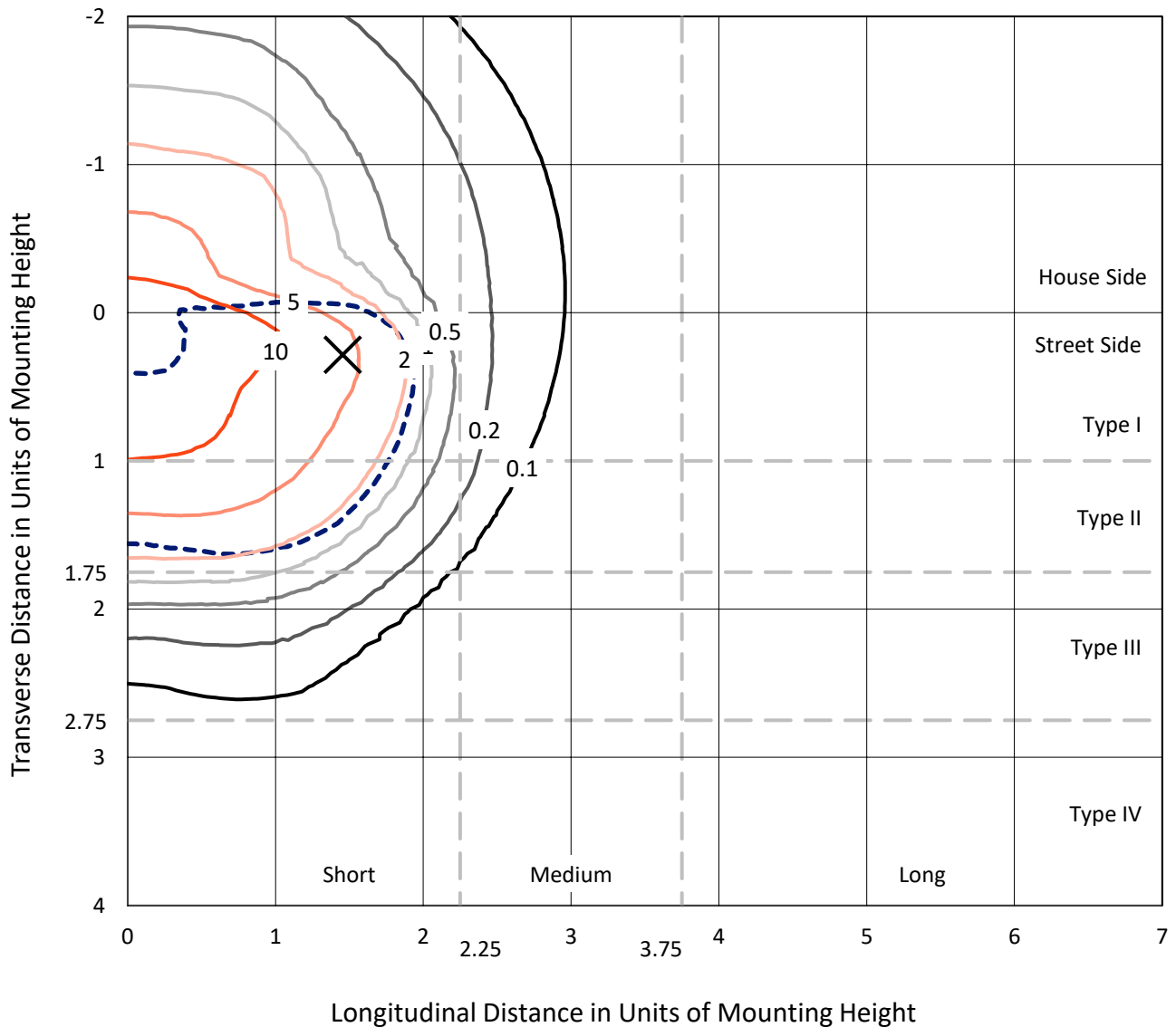
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

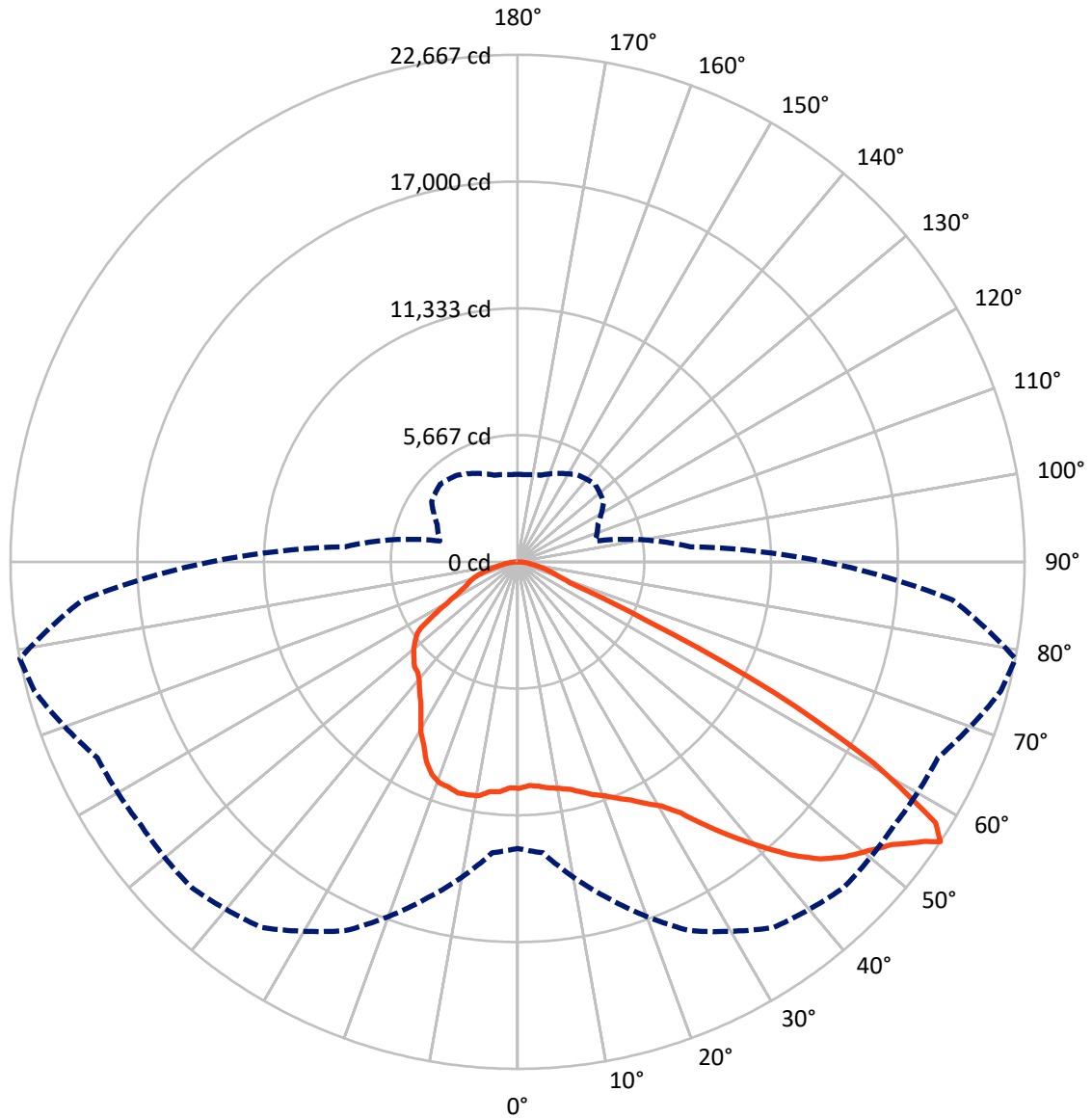
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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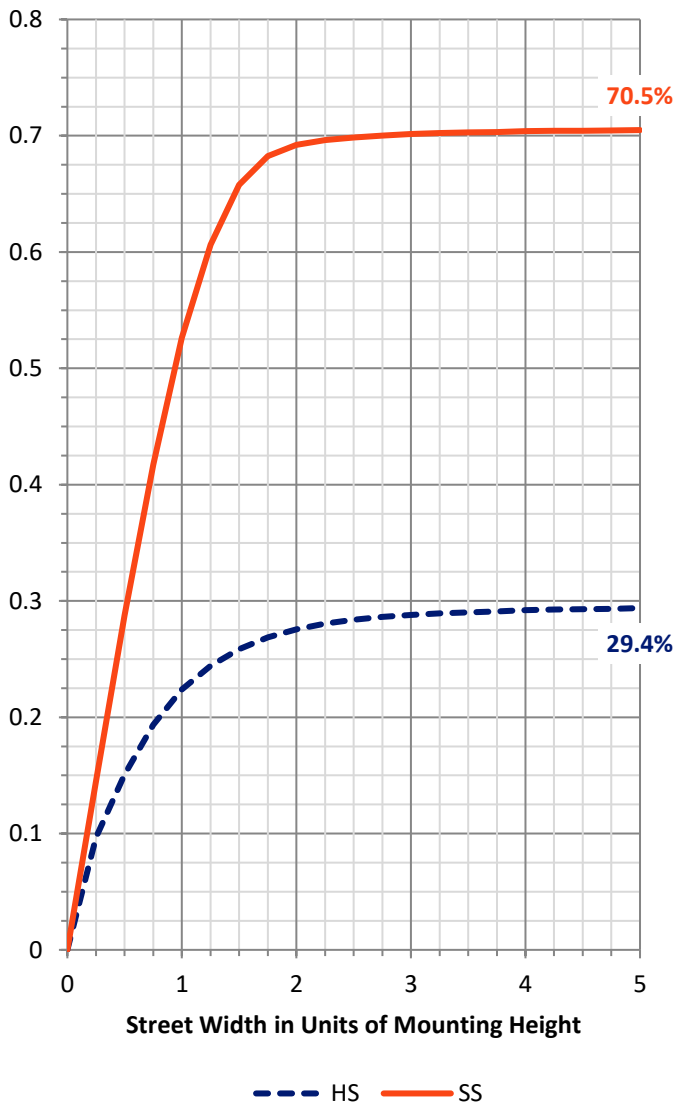
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11682.1	0.0	11682.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	27875.1	0.0	27875.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	39557.3	0.0	39557.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	920.2	2.3
10°-20°	2518.4	6.4
20°-30°	4308.4	10.9
30°-40°	6603.2	16.7
40°-50°	8924.1	22.6
50°-60°	10249.7	25.9
60°-70°	4672.1	11.8
70°-80°	1151.9	2.9
80°-90°	209.4	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°	39557.3	100.0
0°-180°	39557.3	100.0

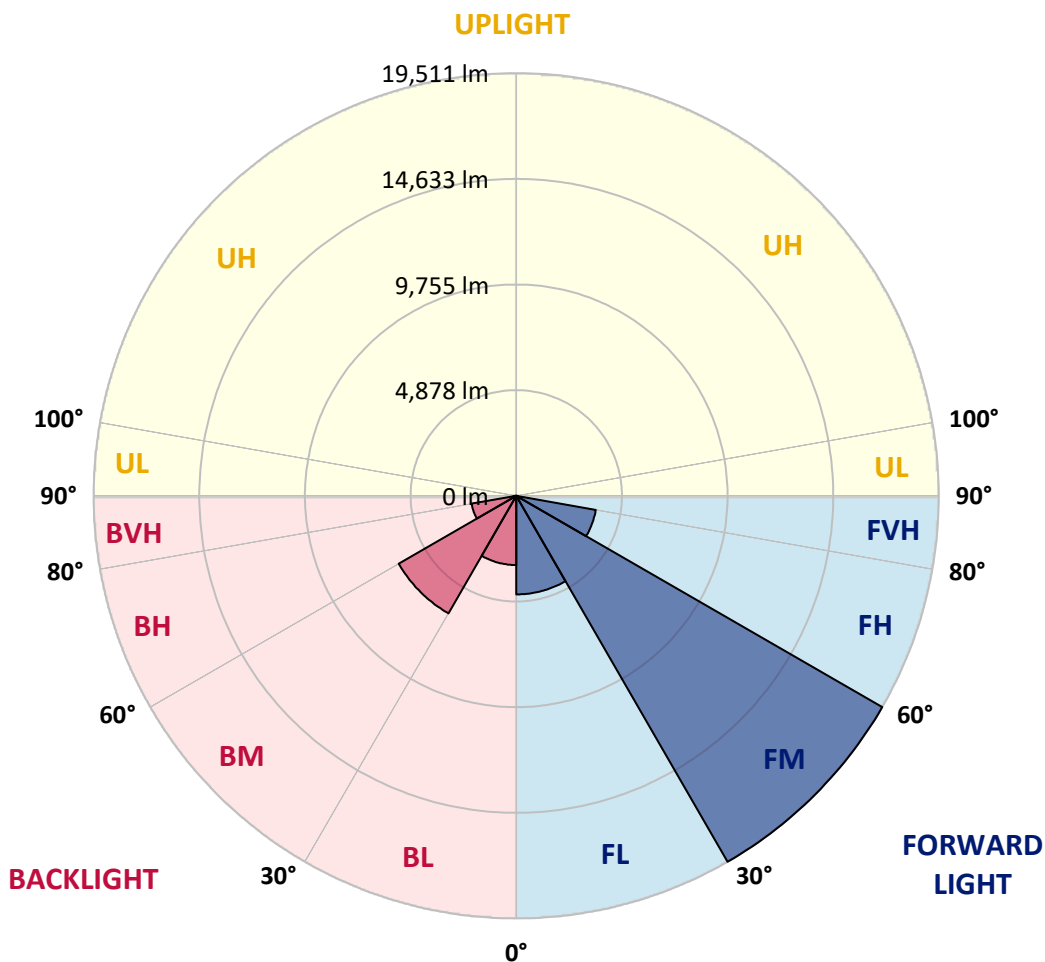


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4551.4	11.5			
FM (30°-60°)	19510.8	49.3			
FH (60°-80°)	3729.3	9.4			G2/5000
FVH (80°-90°)	83.6	0.2			G1/100
BL (0°-30°)	3195.6	8.1	B4/5000		
BM (30°-60°)	6266.1	15.8	B4/8500		
BH (60°-80°)	2094.7	5.3	B3/2500		G3/2500
BVH (80°-90°)	125.8	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1
2.5°	9628.4	9603.7	9662.9	9707.2	9761.4	9830.4	9864.9	9884.6	10057.1	10012.7	10145.7
5°	9421.5	9357.4	9401.7	9436.2	9529.9	9613.6	9707.2	9855.1	10012.7	10081.7	10244.3
7.5°	9239.1	9204.7	9194.7	9219.4	9347.5	9456.0	9618.5	9835.3	10091.6	10204.9	10298.5
10°	8938.6	8889.3	8963.2	9125.8	9160.3	9386.9	9574.2	9884.6	10106.4	10303.4	10579.4
12.5°	8805.5	8756.2	8771.0	8864.6	9106.1	9322.9	9544.6	9894.4	10362.5	10441.4	10811.0
15°	9017.4	8968.1	8982.9	8958.2	9189.9	9303.1	9653.0	10091.6	10540.0	10673.0	11067.2
17.5°	9500.3	9505.2	9441.2	9386.9	9332.7	9574.2	9815.6	10209.8	10609.0	10944.0	11239.7
20°	10421.8	10259.1	10131.0	9825.5	9741.7	9845.2	10150.7	10530.2	10889.9	11165.8	11500.8
22.5°	11131.3	11146.0	10963.8	10461.1	10278.8	10323.2	10584.3	10894.7	11289.0	11486.0	11870.4
25°	12161.1	12057.7	11860.5	11461.4	11052.4	11086.9	11279.1	11560.0	11668.4	11806.4	12225.2
27.5°	13102.3	13131.9	12742.6	12368.1	11860.5	11762.0	12107.0	12156.2	11973.9	12235.0	12377.9
30°	14058.2	14033.6	13777.3	13338.8	12841.1	12860.8	13013.6	12772.2	12520.8	12663.8	12762.3
32.5°	15048.7	14767.8	14758.0	14363.8	13984.3	13802.0	13614.8	13733.0	13343.7	13373.3	13279.7
35°	15842.0	15881.4	15654.8	15373.9	15186.6	14866.4	14353.9	14565.8	14491.9	14457.4	14053.3
37.5°	16418.5	16265.8	16379.1	16285.5	16108.1	15709.0	15176.8	15378.8	15413.3	15580.9	15112.7
40°	16891.6	16827.5	17128.1	17177.3	17054.1	16191.9	15235.9	15837.0	16354.4	16719.1	16162.3
42.5°	17118.2	17256.2	17571.6	17951.0	17675.0	16753.6	15541.4	16186.9	17340.0	17916.5	17157.7
45°	17423.8	17246.3	17714.5	18409.2	18414.2	17226.6	15837.0	16660.0	18108.7	18946.3	17837.6
47.5°	17113.3	17202.0	17684.9	18566.9	18793.6	17724.3	16635.3	17330.2	18956.2	19700.3	18468.4
50°	16418.5	16595.9	17477.9	18394.4	19079.3	18251.6	17551.8	18054.4	19739.7	20306.4	18571.9
52.5°	15694.2	15792.7	17172.5	18527.5	19207.5	18931.6	18778.8	19054.7	20695.6	20991.3	18700.0
55°	13723.2	14191.3	16162.3	18468.4	19833.3	20158.5	20040.3	20444.3	21779.6	22075.3	19399.7
56°	12811.5	13058.0	15556.2	18192.4	19956.5	20606.9	20547.8	20730.1	22356.2	22666.6	19508.1
57.5°	11126.3	11146.0	13264.9	16970.4	19493.3	20740.0	20680.9	20823.7	22242.9	22031.0	18557.1
60°	6962.6	7268.1	9027.2	13053.0	16576.2	19242.0	19577.1	18428.9	18754.1	18305.8	14437.6
62.5°	3607.0	3562.6	4730.5	7632.7	11003.1	13777.3	14087.8	14033.6	13531.0	12875.6	9431.3
65°	1798.6	1808.4	2473.6	3779.5	5637.1	7213.9	8081.2	8174.8	6839.4	6292.4	4474.2
67.5°	1305.8	1355.1	1778.8	2311.0	2656.0	2971.3	3641.4	3572.5	2705.2	2572.2	2384.9
70°	1015.1	1059.4	1443.7	1764.1	1601.4	1601.4	1744.3	1803.4	1926.6	1980.9	2044.9
72.5°	739.2	773.6	1103.7	1217.1	1049.6	1128.4	1305.8	1443.7	1571.9	1591.6	1665.5
75°	507.5	537.1	724.4	670.1	630.8	778.5	956.0	1084.0	1177.7	1226.9	1271.3
77.5°	330.2	340.0	413.9	349.9	404.0	502.6	620.9	729.3	822.9	862.3	872.2
80°	147.8	162.6	177.4	221.8	280.9	359.7	443.5	532.2	591.3	606.1	635.6
82.5°	83.8	83.8	108.4	157.7	207.0	261.1	320.3	384.3	453.3	468.1	463.2
85°	44.3	44.3	64.1	93.6	128.1	152.7	147.8	152.7	162.6	187.2	182.3
87.5°	14.8	14.8	19.7	19.7	24.6	29.6	24.6	34.5	44.3	44.3	44.3
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°	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1	10121.1
2.5°	10106.4	10150.7	10091.6	10219.7	10219.7	10195.0	10071.9	10111.3	10140.9	10140.9	10165.5
5°	10298.5	10283.7	10323.2	10170.4	10076.8	10042.3	9840.3	9741.7	9658.0	9653.0	9579.1
7.5°	10407.0	10367.5	10352.7	10239.4	9825.5	9574.2	9140.6	8889.3	8835.0	8642.9	8716.8
10°	10579.4	10653.3	10579.4	9963.5	9386.9	8810.4	8386.6	7997.4	7844.6	7721.5	7647.5
12.5°	10934.2	10899.7	10471.0	9638.3	8830.2	8145.2	7514.5	7105.5	6952.7	6844.3	6834.5
15°	11234.8	11062.3	10407.0	9125.8	7962.9	7233.6	6716.2	6425.5	6356.5	6366.4	6410.7
17.5°	11338.3	11219.9	10071.9	8593.6	7317.4	6460.0	6218.5	6174.2	6238.3	6312.1	6331.9
20°	11500.8	11313.6	9933.9	7869.2	6519.1	5977.1	5962.3	6120.0	6238.3	6346.7	6361.4
22.5°	11840.9	11367.8	9485.5	7184.3	5972.2	5834.2	5977.1	6110.1	6292.4	6381.2	6302.3
25°	11939.4	11249.6	8854.8	6361.4	5627.2	5745.5	5898.3	6080.6	6208.7	6258.0	6292.4
27.5°	12023.2	11067.2	8002.3	5814.5	5518.8	5740.6	5898.3	6051.0	6120.0	6164.4	6203.7
30°	12259.7	11013.1	7263.2	5449.8	5449.8	5642.0	5844.0	5883.5	5977.1	6031.3	6100.3
32.5°	12377.9	10638.6	6504.3	5218.2	5380.9	5691.3	5706.1	5780.0	5784.9	5829.2	5755.4
35°	12688.4	10372.5	5799.7	5050.7	5410.4	5642.0	5715.9	5671.6	5430.2	5311.8	5336.5
37.5°	12915.1	10239.4	5292.2	5031.0	5415.4	5696.3	5735.6	5400.6	5149.3	4952.1	5001.4
40°	13526.1	9909.3	4907.8	4996.5	5459.7	5755.4	5647.0	5282.3	4828.9	4626.9	4592.4
42.5°	13994.2	9672.8	4666.4	4957.1	5494.2	5839.1	5602.6	5045.7	4582.6	4395.3	4444.6
45°	14536.2	9618.5	4538.3	4966.9	5553.3	5883.5	5548.4	4863.5	4370.7	4296.8	4282.0
47.5°	14728.3	9229.2	4400.3	4883.2	5538.6	5868.7	5366.1	4725.5	4291.9	4301.7	4341.2
50°	14408.1	8830.2	4296.8	4710.7	5440.0	5735.6	5080.3	4543.2	4247.6	4370.7	4439.7
52.5°	13999.1	8421.2	4084.9	4479.1	5238.0	5528.6	4947.3	4533.3	4203.1	4163.8	4178.5
55°	14122.3	8086.0	3789.3	4163.8	4912.8	5144.3	4799.4	4439.7	4094.7	3947.0	3996.3
56°	13723.2	7741.2	3597.1	3966.7	4691.0	4898.0	4725.5	4356.0	4006.1	3907.5	3907.5
57.5°	12594.7	6583.2	3345.8	3651.3	4222.9	4469.2	4582.6	4306.7	3907.5	3735.0	3740.0
60°	9288.4	4681.2	3000.9	3217.7	3498.6	3695.6	4222.9	4168.7	3661.1	3542.9	3498.6
62.5°	5725.8	3419.7	2754.5	2838.3	2981.2	3143.7	3685.8	3774.5	3400.0	3271.9	3242.3
65°	3207.8	2616.5	2567.2	2601.7	2670.7	2754.5	3060.0	3257.1	3000.9	2803.7	2793.9
67.5°	2345.5	2340.6	2380.0	2409.5	2439.2	2439.2	2513.1	2591.9	2557.4	2399.7	2384.9
70°	2084.3	2099.1	2128.7	2133.6	2143.5	2109.0	2049.9	2025.2	2064.7	1966.1	1946.4
72.5°	1719.7	1769.0	1803.4	1808.4	1754.2	1709.8	1631.0	1547.3	1517.7	1498.0	1493.0
75°	1320.5	1355.1	1369.8	1364.9	1345.2	1281.2	1187.5	1103.7	1049.6	990.4	1020.0
77.5°	891.9	941.2	965.8	965.8	936.2	837.7	793.3	729.3	675.1	611.0	620.9
80°	625.8	660.3	699.7	694.8	645.5	596.3	532.2	473.1	428.7	379.5	374.5
82.5°	468.1	487.9	507.5	497.7	463.2	413.9	369.5	315.4	266.1	231.6	231.6
85°	167.5	182.3	221.8	231.6	251.3	251.3	211.8	177.4	142.9	118.2	118.2
87.5°	49.3	49.3	54.2	54.2	49.3	54.2	44.3	49.3	54.2	34.5	34.5
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)