

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: P531665

Luminaire Tested: **GALN-SA7A-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15578 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

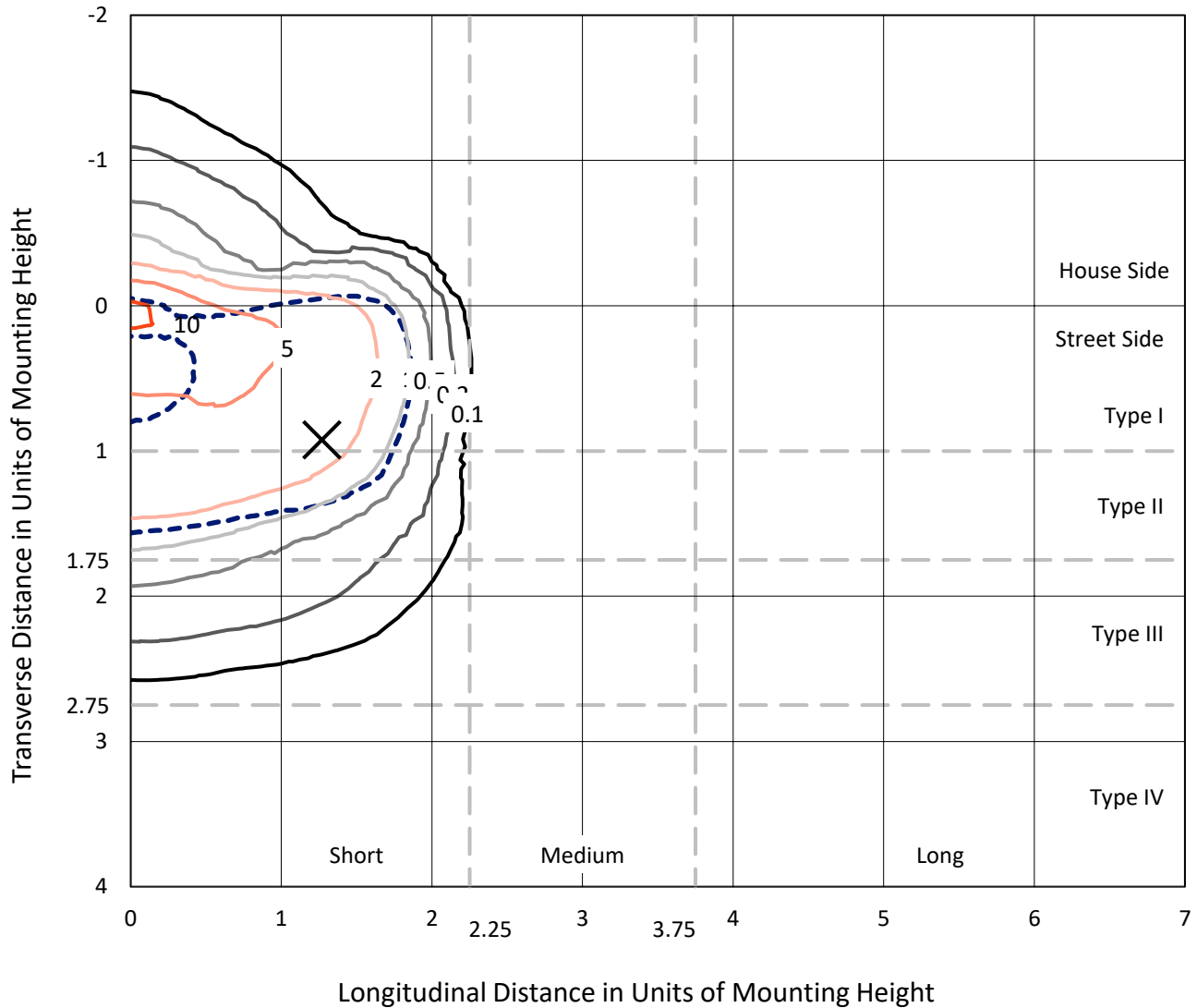
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

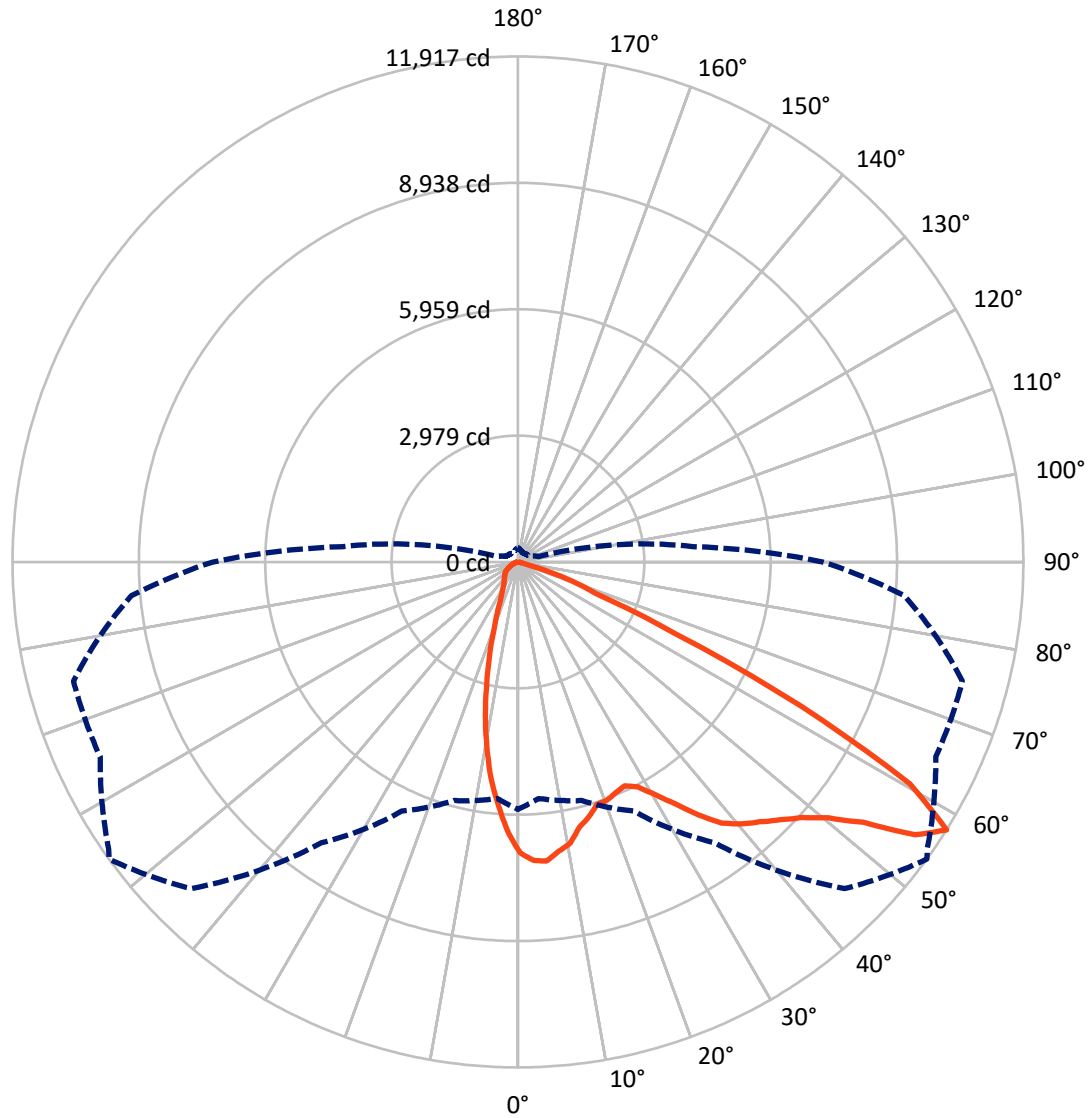
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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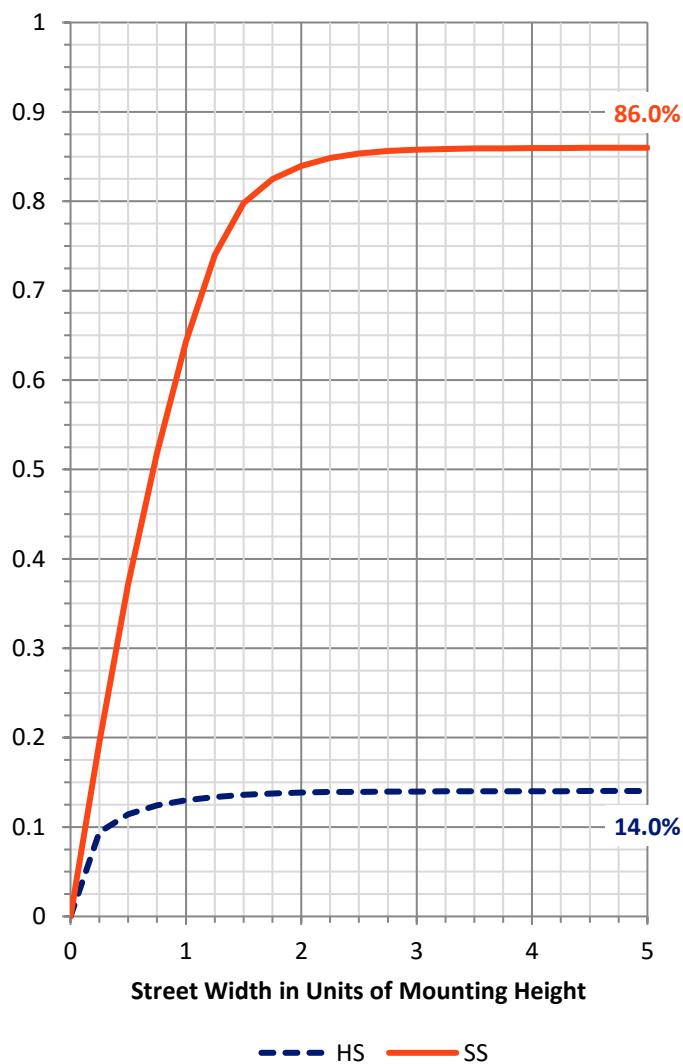
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2201.4	0.0	2201.4
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	13376.6	0.0	13376.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	15578.0	0.0	15578.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.3	3.7
10°-20°	1226.0	7.9
20°-30°	1624.7	10.4
30°-40°	2361.2	15.2
40°-50°	3501.3	22.5
50°-60°	4378.2	28.1
60°-70°	1727.0	11.1
70°-80°	172.0	1.1
80°-90°	13.4	0.1
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°	15578.0	100.0
0°-180°	15578.0	100.0

Coefficient of Utilization

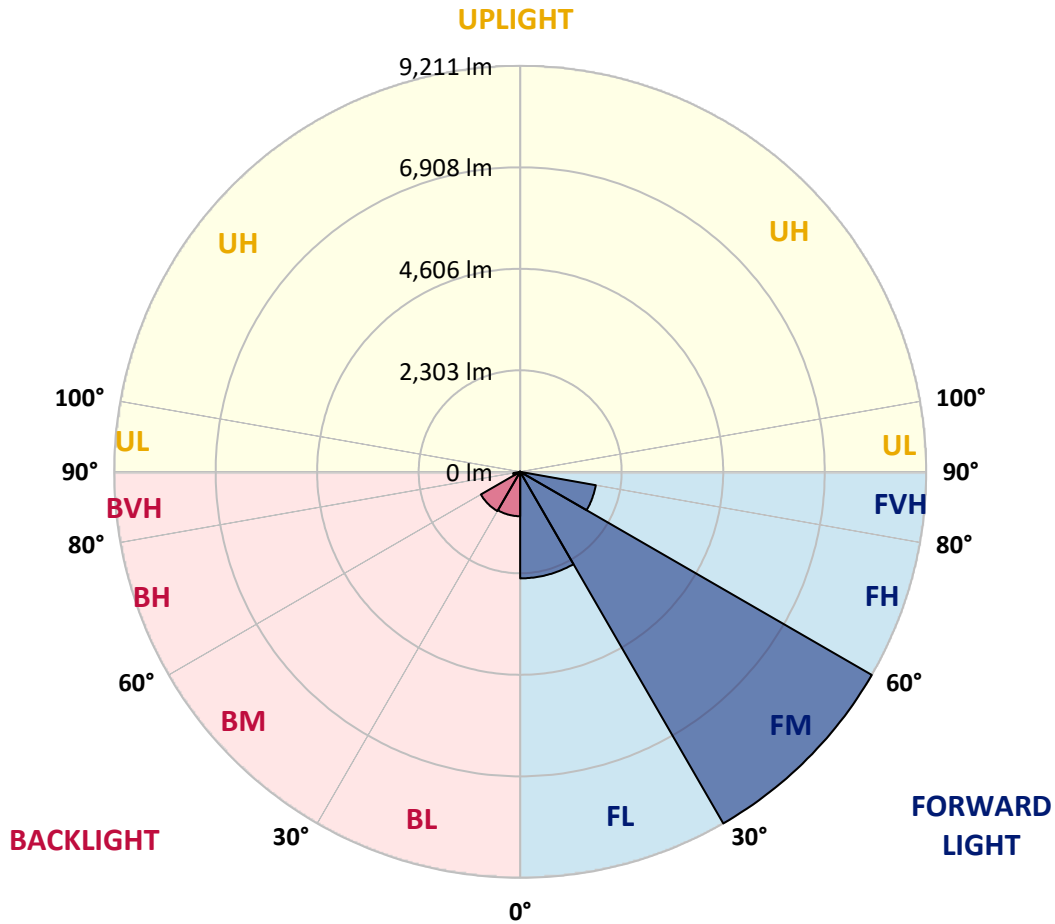


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2418.2	15.5			
FM (30°-60°)	9211.2	59.1			
FH (60°-80°)	1741.1	11.2			G1/1800
FVH (80°-90°)	6.1	0.0			G0/10
BL (0°-30°)	1006.8	6.5	B3/2500		
BM (30°-60°)	1029.4	6.6	B2/2500		
BH (60°-80°)	157.9	1.0	B1/500		G1/500
BVH (80°-90°)	7.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3
2.5°	7262.1	7186.8	7192.5	7166.5	7131.7	7157.8	7044.8	7070.9	7068.0	6914.5	6813.1
5°	7079.6	7160.7	7076.7	7146.2	7079.6	7152.0	7082.5	7030.3	6946.3	6833.4	6645.1
7.5°	6769.6	6691.4	6714.6	6801.5	6816.0	6978.2	6891.3	6957.9	6923.1	6700.1	6442.3
10°	6146.8	6129.4	6245.3	6361.2	6503.1	6676.9	6743.6	6705.9	6679.8	6595.8	6251.1
12.5°	5668.9	5718.1	5715.2	5906.4	6146.8	6245.3	6419.1	6413.3	6558.2	6401.7	6071.5
15°	5214.1	5240.2	5361.8	5480.6	5747.1	6028.1	6242.4	6271.4	6445.2	6335.1	5932.5
17.5°	4936.0	4898.3	4993.9	5135.9	5408.2	5776.1	6013.6	6083.1	6320.6	6297.5	5773.2
20°	4660.8	4660.8	4739.0	4907.0	5156.2	5570.4	5993.3	5973.0	6320.6	6254.0	5602.2
22.5°	4568.1	4614.5	4634.7	4762.2	5057.7	5414.0	5906.4	5944.1	6369.9	6233.7	5526.9
25°	4695.6	4634.7	4640.5	4741.9	5020.0	5338.6	5842.7	5926.7	6459.7	6335.1	5466.1
27.5°	4715.9	4776.7	4794.1	4863.6	5049.0	5361.8	6002.0	6172.9	6682.7	6572.6	5483.5
30°	4892.6	4953.4	4950.5	5069.3	5196.7	5550.1	6358.3	6393.1	7143.3	6871.0	5590.7
32.5°	5106.9	5170.6	5190.9	5330.0	5431.3	5894.8	6792.8	6882.6	7586.5	7340.3	5871.6
35°	5373.4	5350.2	5442.9	5582.0	5799.2	6398.8	7322.9	7473.5	8064.5	7948.6	6161.3
37.5°	5706.5	5677.6	5767.4	5993.3	6288.8	6995.6	7812.4	7910.9	8412.1	8513.4	6697.2
40°	5941.2	5952.8	6225.0	6529.2	6842.0	7563.3	8122.4	8218.0	8655.4	9040.6	7102.7
42.5°	6332.2	6404.6	6732.0	7102.7	7430.1	7989.1	8374.4	8467.1	8768.4	9463.6	7650.2
45°	6900.0	6868.1	7230.2	7644.4	8006.5	8432.3	8672.8	8640.9	8835.0	9883.6	7994.9
47.5°	7629.9	7635.7	7876.2	8229.6	8606.1	8817.6	9005.9	8892.9	8974.0	10326.8	8455.5
50°	8128.2	8171.6	8365.7	8727.8	8916.1	9240.5	9480.9	9411.4	9385.4	10593.3	8745.2
52.5°	8255.6	8386.0	8490.3	8942.2	9382.5	9895.2	10202.2	10350.0	9886.5	10683.1	9113.1
55°	7293.9	7409.8	7777.7	8397.6	9559.2	10932.2	11355.1	11358.0	10541.1	11082.8	9370.9
57.5°	5831.1	5596.5	5822.4	6480.0	8081.8	10888.8	11917.1	11780.9	10868.5	10848.2	9147.8
60°	4032.2	3974.3	3988.8	4249.5	5593.6	8661.2	10619.4	10796.1	10008.2	9402.7	7241.8
62.5°	3195.1	3145.8	3082.1	3053.1	3473.2	5396.6	7490.9	7740.0	6998.5	6097.6	4292.9
65°	2502.8	2473.8	2482.5	2598.4	2595.5	3061.8	4096.0	3994.6	3198.0	2363.7	1349.9
67.5°	1688.8	1732.2	1767.0	2117.5	2297.1	2132.0	1978.5	1920.5	1039.9	437.4	298.4
70°	950.1	955.9	993.6	1323.8	1743.8	1654.0	1364.4	1364.4	518.5	159.3	170.9
72.5°	518.5	501.1	466.4	570.7	776.3	787.9	608.3	530.1	153.5	104.3	95.6
75°	252.0	249.1	214.4	176.7	168.0	139.0	107.2	98.5	69.5	66.6	57.9
77.5°	52.1	49.2	26.1	26.1	29.0	31.9	40.6	40.6	49.2	49.2	40.6
80°	0.0	0.0	2.9	11.6	20.3	29.0	34.8	34.8	40.6	40.6	31.9
82.5°	0.0	0.0	2.9	8.7	17.4	26.1	31.9	34.8	40.6	43.5	34.8
85°	0.0	0.0	0.0	5.8	14.5	20.3	17.4	17.4	14.5	11.6	5.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3	6862.3
2.5°	6760.9	6755.1	6621.9	6546.6	6410.4	6291.7	6196.1	6126.6	6126.6	6083.1	6042.5
5°	6569.8	6520.5	6236.6	6054.1	5796.3	5605.1	5474.8	5373.4	5214.1	5257.5	5086.6
7.5°	6332.2	6207.7	5831.1	5553.0	5196.7	4924.4	4646.3	4400.1	4162.6	4055.4	4113.3
10°	6077.3	5860.1	5353.1	4912.8	4469.6	3971.4	3647.0	3253.0	3009.7	2995.2	2931.5
12.5°	5807.9	5561.7	4944.7	4336.4	3754.1	3154.5	2659.2	2291.3	2126.2	1943.7	1978.5
15°	5605.1	5240.2	4489.9	3757.0	2983.6	2378.2	1880.0	1596.1	1439.7	1396.2	1381.7
17.5°	5385.0	4993.9	4026.4	3140.0	2340.5	1712.0	1352.8	1216.6	1155.8	1155.8	1147.1
20°	5156.2	4715.9	3565.9	2566.5	1755.4	1277.5	1083.4	1039.9	1037.0	1034.1	1034.1
22.5°	5005.5	4397.2	3148.7	2039.3	1323.8	1022.5	941.4	924.1	935.6	970.4	970.4
25°	4846.2	4090.2	2688.2	1572.9	1025.4	877.7	831.4	842.9	871.9	903.8	892.2
27.5°	4684.0	3890.3	2253.6	1234.0	840.0	767.6	750.2	776.3	808.2	837.2	828.5
30°	4646.3	3675.9	1842.3	935.6	721.3	669.1	680.7	703.9	735.8	747.4	758.9
32.5°	4704.3	3507.9	1509.2	767.6	628.6	614.1	614.1	625.7	646.0	672.0	663.3
35°	4869.4	3412.3	1193.4	666.2	576.4	562.0	559.1	570.7	582.2	590.9	582.2
37.5°	5121.4	3337.0	976.2	590.9	541.7	518.5	512.7	509.8	521.4	524.3	530.1
40°	5442.9	3377.6	828.5	544.6	506.9	480.9	463.5	463.5	463.5	472.2	475.1
42.5°	5790.5	3432.6	715.5	518.5	475.1	443.2	425.8	420.0	425.8	437.4	434.5
45°	6155.5	3539.8	643.1	478.0	446.1	405.5	382.4	376.6	391.1	414.2	411.3
47.5°	6497.3	3693.3	588.0	451.9	417.1	379.5	350.5	344.7	370.8	402.6	405.5
50°	6839.1	3959.8	567.8	431.6	396.9	353.4	327.3	321.5	350.5	391.1	399.7
52.5°	7233.1	4246.6	553.3	405.5	373.7	333.1	304.2	298.4	330.2	382.4	385.3
55°	7490.9	4489.9	541.7	359.2	330.2	301.3	278.1	275.2	309.9	356.3	367.9
57.5°	7189.6	4151.0	501.1	312.8	281.0	266.5	246.2	246.2	275.2	318.6	327.3
60°	5451.6	2731.6	356.3	252.0	237.5	228.8	220.2	220.2	243.3	275.2	278.1
62.5°	3192.2	1471.5	228.8	202.8	202.8	194.1	179.6	179.6	202.8	220.2	223.0
65°	947.2	472.2	185.4	173.8	170.9	156.4	141.9	139.0	156.4	165.1	162.2
67.5°	272.3	217.3	153.5	144.8	141.9	118.8	110.1	107.2	110.1	104.3	101.4
70°	162.2	147.7	118.8	121.7	107.2	86.9	78.2	75.3	69.5	60.8	55.0
72.5°	89.8	89.8	86.9	92.7	75.3	57.9	49.2	40.6	31.9	26.1	23.2
75°	55.0	57.9	60.8	63.7	49.2	37.7	31.9	20.3	11.6	5.8	5.8
77.5°	37.7	40.6	43.5	46.3	40.6	34.8	26.1	14.5	2.9	0.0	0.0
80°	29.0	31.9	37.7	40.6	43.5	46.3	34.8	14.5	2.9	0.0	0.0
82.5°	31.9	34.8	43.5	40.6	40.6	40.6	31.9	14.5	2.9	0.0	0.0
85°	5.8	8.7	14.5	14.5	20.3	26.1	20.3	5.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)