

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: P528765

Luminaire Tested: **GALN-SA3D-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528765
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14045 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

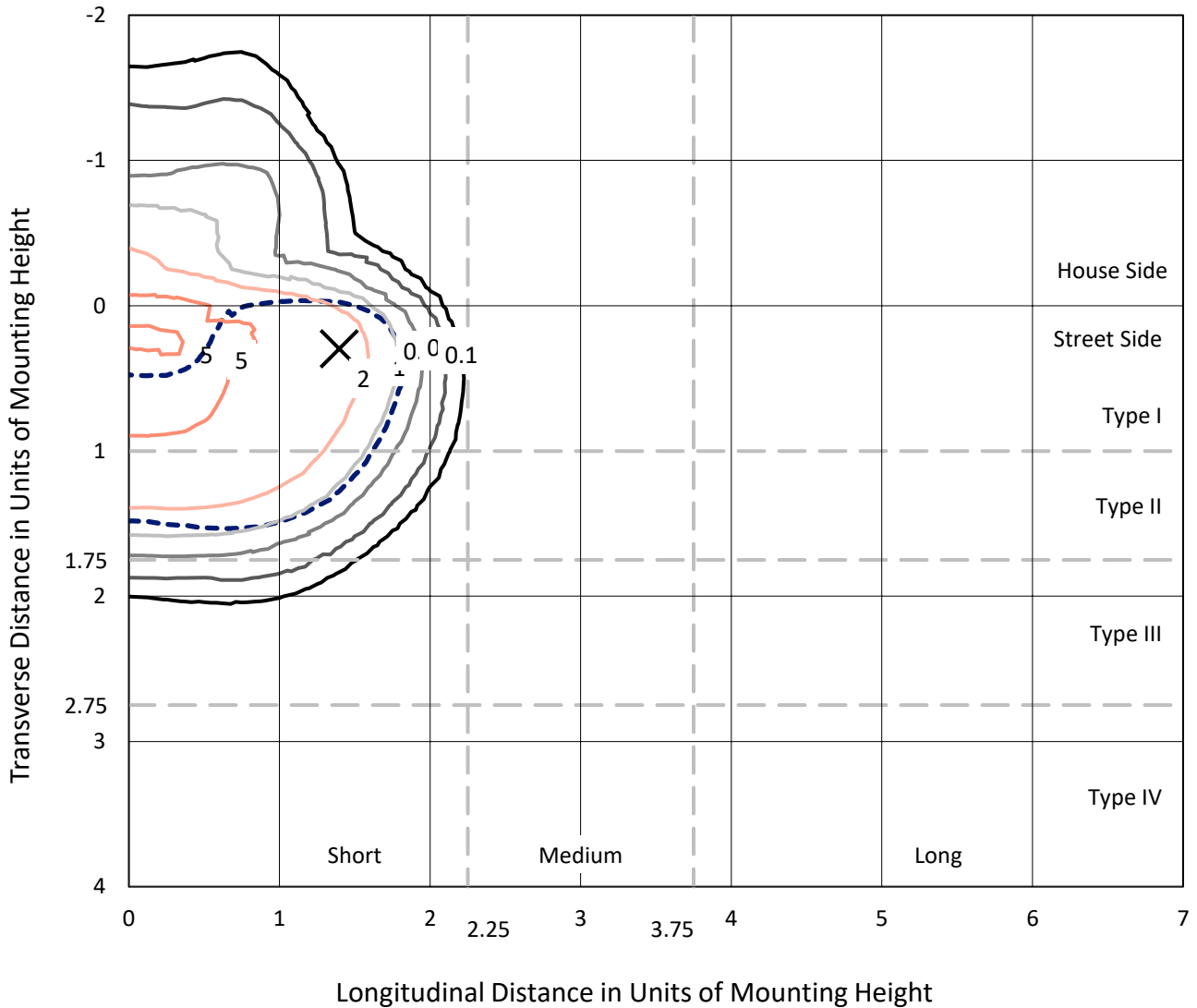
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

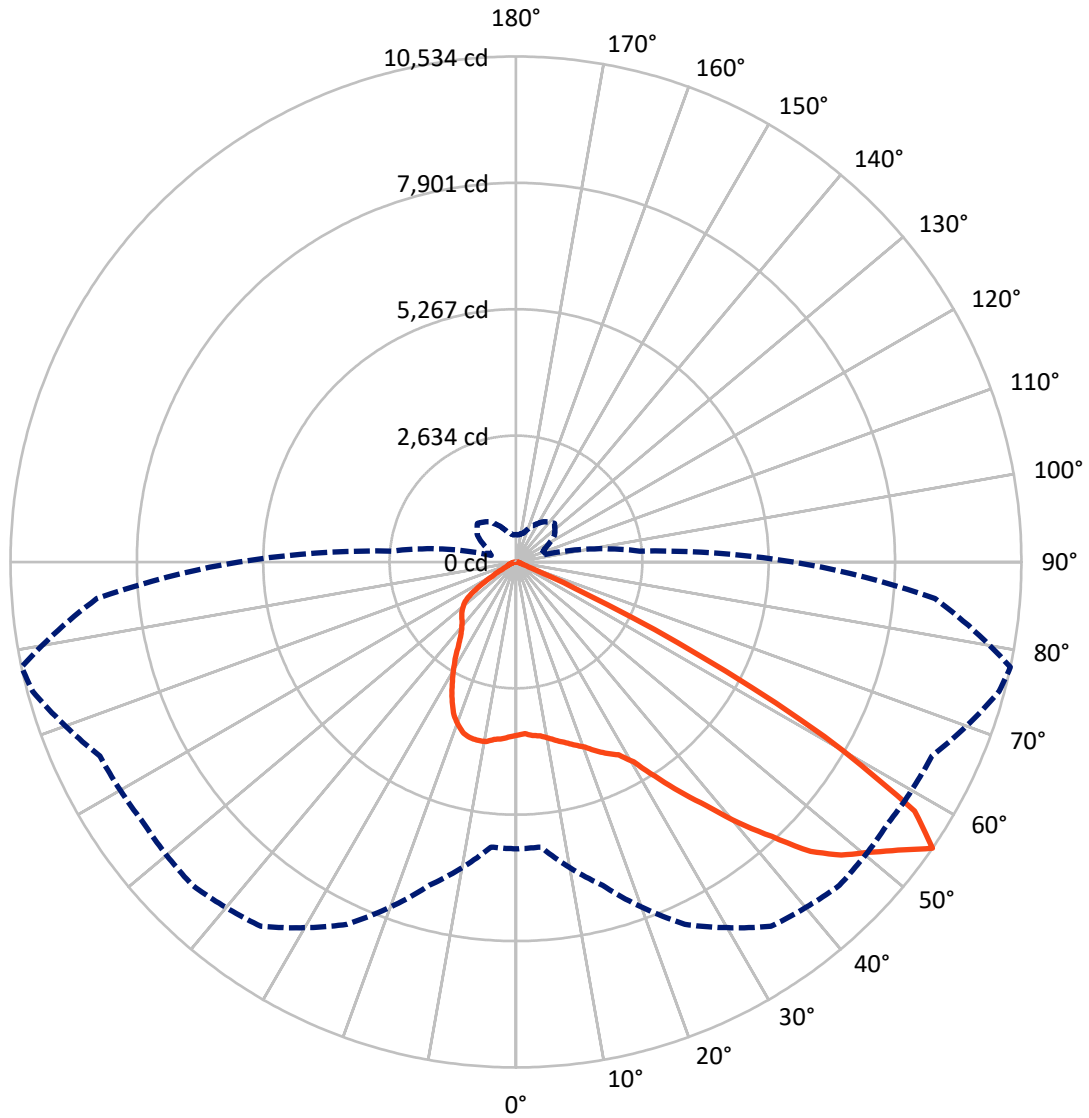
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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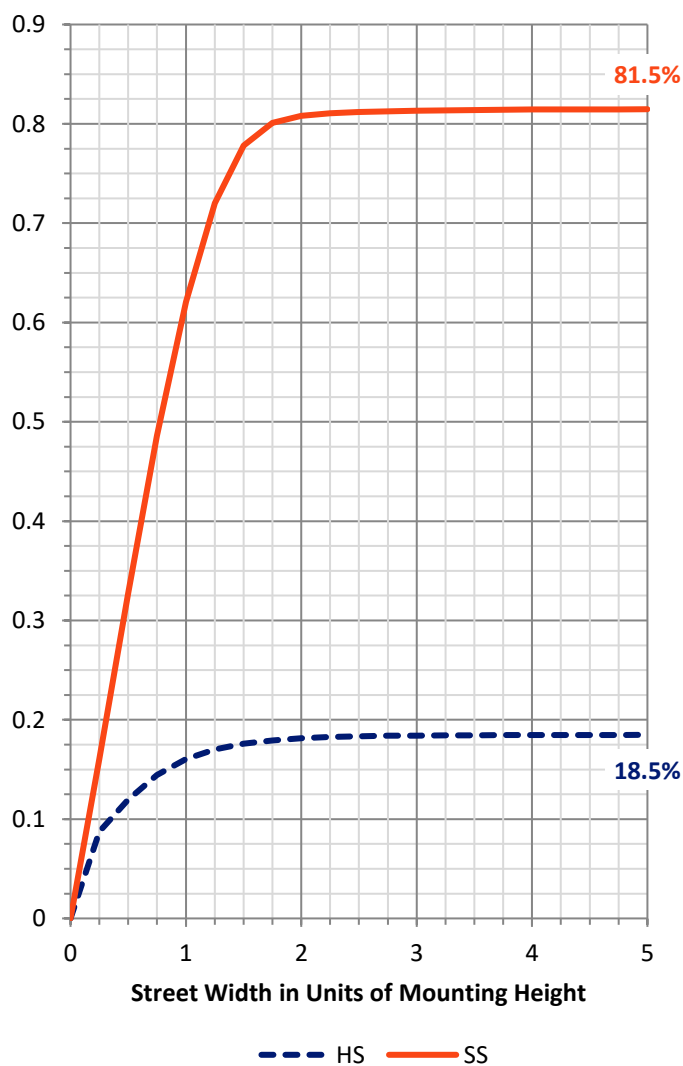
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2608.7	0.0	2608.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11436.3	0.0	11436.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	14045.0	0.0	14045.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.0	2.3
10°-20°	852.1	6.1
20°-30°	1493.6	10.6
30°-40°	2462.8	17.5
40°-50°	3583.7	25.5
50°-60°	4060.7	28.9
60°-70°	1161.0	8.3
70°-80°	90.1	0.6
80°-90°	18.8	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°	14045.0	100.0
0°-180°	14045.0	100.0

Coefficient of Utilization



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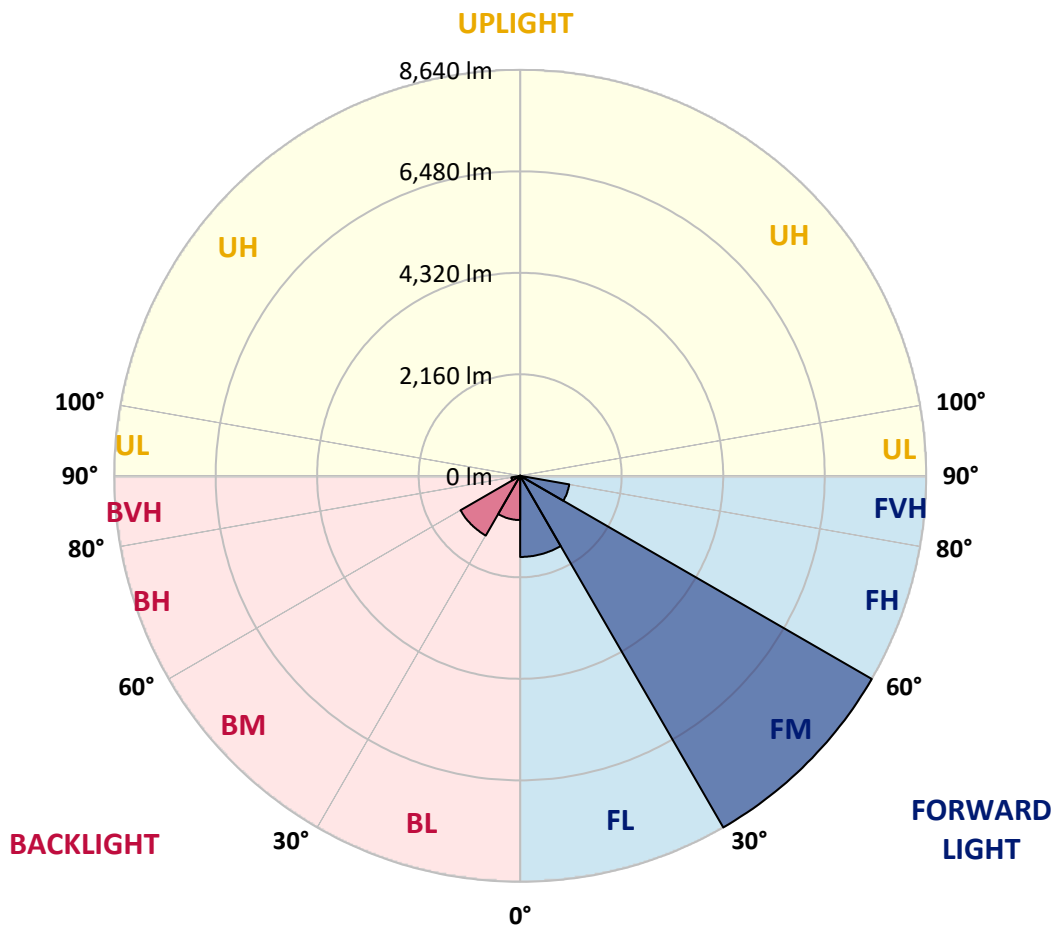
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1726.5	12.3			
FM (30°-60°)	8639.9	61.5			
FH (60°-80°)	1060.8	7.6			G1/1800
FVH (80°-90°)	9.1	0.1			G0/10
BL (0°-30°)	941.2	6.7	B2/1000		
BM (30°-60°)	1467.4	10.4	B2/2500		
BH (60°-80°)	190.4	1.4	B1/500		G1/500
BVH (80°-90°)	9.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0
2.5°	3395.0	3427.7	3432.7	3472.9	3470.4	3538.2	3558.2	3560.8	3606.0	3583.4	3641.1
5°	3299.6	3282.0	3274.5	3344.8	3364.9	3425.2	3475.4	3505.5	3598.4	3631.1	3691.3
7.5°	3214.2	3214.2	3219.2	3282.0	3274.5	3352.3	3405.1	3498.0	3633.6	3661.2	3734.0
10°	3131.4	3101.2	3138.9	3204.2	3259.4	3294.6	3405.1	3493.0	3651.2	3731.5	3832.0
12.5°	3088.7	3103.7	3108.8	3156.5	3216.7	3322.2	3382.5	3528.1	3776.7	3824.4	3932.4
15°	3357.4	3327.2	3254.4	3211.7	3261.9	3312.2	3462.8	3611.0	3842.0	3909.8	4030.3
17.5°	3668.7	3643.6	3583.4	3467.8	3354.8	3447.8	3565.8	3701.4	3912.3	4012.8	4191.0
20°	4075.5	4035.4	3975.1	3749.1	3651.2	3550.7	3676.3	3837.0	4027.8	4118.2	4301.5
22.5°	4560.2	4560.2	4424.6	4150.9	3947.5	3852.0	3904.8	3997.7	4155.9	4278.9	4459.7
25°	5064.9	5049.8	4926.8	4643.0	4299.0	4186.0	4246.3	4311.6	4354.3	4422.1	4542.6
27.5°	5642.5	5554.6	5398.9	5085.0	4781.2	4562.7	4628.0	4570.2	4517.5	4552.6	4725.9
30°	6034.2	6089.4	5891.1	5589.7	5303.5	5059.9	5072.4	5022.2	4781.2	4831.4	4934.3
32.5°	6441.0	6476.2	6365.7	6199.9	5913.7	5629.9	5527.0	5484.3	5303.5	5326.1	5225.6
35°	6780.0	6847.8	6749.9	6677.0	6594.2	6365.7	6081.9	6220.0	5928.7	5873.5	5612.3
37.5°	7091.4	7071.3	7186.8	7111.5	7093.9	6933.2	6621.8	6649.4	6453.6	6441.0	6139.7
40°	7370.1	7375.1	7533.3	7568.5	7498.2	7211.9	6759.9	6978.4	7136.6	7151.6	6764.9
42.5°	7601.1	7668.9	7804.5	8088.3	7982.8	7505.7	6903.0	7141.6	7729.2	7822.1	7357.6
45°	7802.0	7940.1	8108.4	8362.0	8301.7	7922.6	7259.6	7478.1	8362.0	8605.6	7915.0
47.5°	7814.6	7995.4	8178.7	8555.4	8630.7	8146.0	7628.8	8010.4	8864.2	9127.9	8321.8
50°	7764.4	7859.8	8226.4	8635.7	8806.5	8510.2	8146.0	8457.4	9351.4	9517.1	8527.7
52.5°	7169.2	7242.0	7977.8	8711.0	9122.9	8922.0	8831.6	9080.2	9848.6	9971.6	8721.1
55°	5976.4	5963.9	6975.9	8331.9	9268.5	9532.2	9476.9	9564.8	10423.6	10534.1	8768.8
57.5°	4088.1	4316.6	5190.5	6938.2	8377.1	9389.0	9446.8	9301.2	9753.2	9795.8	7643.8
60°	2204.8	2300.2	3003.3	4630.5	6378.2	7651.4	7802.0	7538.4	7503.2	7382.7	5456.6
62.5°	876.4	924.1	1323.4	2292.6	3475.4	4650.6	4974.5	4866.5	4635.5	4319.1	2825.0
65°	416.8	447.0	657.9	1072.2	1541.8	1938.6	2262.5	2363.0	1742.7	1569.4	931.6
67.5°	283.8	306.4	479.6	612.7	549.9	575.0	748.3	695.6	409.3	349.0	258.6
70°	216.0	231.0	384.2	416.8	246.1	173.3	193.4	180.8	168.2	170.8	168.2
72.5°	153.2	165.7	281.2	246.1	108.0	80.4	103.0	123.0	123.0	123.0	120.5
75°	92.9	105.5	163.2	95.4	42.7	42.7	65.3	82.9	87.9	90.4	85.4
77.5°	47.7	60.3	55.2	27.6	27.6	32.6	47.7	57.8	62.8	62.8	60.3
80°	10.0	10.0	10.0	15.1	27.6	35.2	47.7	52.7	60.3	60.3	55.2
82.5°	0.0	2.5	7.5	15.1	25.1	32.6	45.2	52.7	60.3	62.8	57.8
85°	0.0	2.5	5.0	10.0	17.6	20.1	17.6	15.1	15.1	15.1	15.1
87.5°	0.0	0.0	2.5	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0
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°	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0	3611.0
2.5°	3646.1	3653.7	3641.1	3638.6	3628.6	3658.7	3585.9	3568.3	3613.5	3570.8	3580.8
5°	3693.8	3711.4	3688.8	3651.2	3595.9	3510.5	3437.7	3342.3	3297.1	3264.4	3259.4
7.5°	3729.0	3741.6	3719.0	3598.4	3432.7	3216.7	3056.0	2938.0	2845.1	2817.5	2772.3
10°	3872.1	3874.6	3761.6	3495.5	3171.5	2887.8	2641.7	2460.9	2368.0	2310.2	2285.1
12.5°	3967.6	3962.5	3734.0	3292.1	2860.2	2483.5	2202.2	1983.8	1898.4	1870.8	1853.2
15°	4088.1	4060.5	3668.7	3083.6	2458.4	2051.6	1798.0	1647.3	1639.8	1622.2	1639.8
17.5°	4183.5	4105.7	3573.3	2704.5	2074.2	1690.0	1524.2	1534.3	1554.4	1572.0	1574.5
20°	4339.2	4178.5	3354.8	2373.0	1717.6	1448.9	1446.4	1491.6	1541.8	1561.9	1582.0
22.5°	4457.2	4208.6	3121.3	2018.9	1426.3	1351.0	1393.7	1461.5	1499.1	1519.2	1549.4
25°	4499.9	4125.8	2809.9	1664.9	1285.7	1305.8	1371.1	1416.3	1464.0	1486.6	1474.0
27.5°	4542.6	4083.1	2438.3	1371.1	1210.4	1275.6	1330.9	1376.1	1391.2	1421.3	1441.4
30°	4645.6	3934.9	2104.3	1185.2	1172.7	1255.6	1295.7	1310.8	1351.0	1368.6	1368.6
32.5°	4728.4	3877.2	1750.2	1097.4	1167.7	1265.6	1270.6	1270.6	1275.6	1263.1	1258.1
35°	4899.2	3678.8	1433.8	1044.6	1165.2	1268.1	1280.7	1238.0	1122.5	1077.3	1064.7
37.5°	5110.1	3550.7	1200.3	1032.1	1182.7	1298.2	1318.3	1157.6	1007.0	934.1	921.6
40°	5366.2	3460.3	1047.1	1027.0	1222.9	1368.6	1308.3	1094.8	899.0	793.5	788.5
42.5°	5665.1	3377.4	944.2	1024.5	1273.1	1441.4	1298.2	1042.1	788.5	718.2	728.2
45°	5903.6	3332.2	873.9	1007.0	1290.7	1484.1	1305.8	949.2	743.3	698.1	703.1
47.5°	6089.4	3236.8	816.1	976.8	1288.2	1499.1	1238.0	911.5	720.7	733.2	745.8
50°	6094.5	3108.8	743.3	911.5	1250.5	1471.5	1160.1	876.4	715.7	768.4	793.5
52.5°	6026.7	2928.0	665.4	818.6	1162.6	1376.1	1089.8	861.3	693.1	688.0	718.2
55°	5785.6	2589.0	534.9	662.9	981.8	1135.0	1027.0	833.7	625.3	567.5	572.5
57.5°	4675.7	1855.7	394.2	474.6	695.6	831.2	926.6	821.1	562.5	482.1	484.6
60°	2895.3	1052.2	288.8	323.9	429.4	504.7	750.8	763.4	502.2	406.8	401.8
62.5°	1486.6	519.8	223.5	228.5	263.7	296.3	514.8	640.3	454.5	386.7	386.7
65°	497.2	256.1	195.9	175.8	175.8	183.3	311.4	444.5	384.2	323.9	323.9
67.5°	213.4	190.8	170.8	153.2	140.6	133.1	175.8	258.6	286.3	246.1	236.0
70°	165.7	160.7	148.2	128.1	110.5	100.4	103.0	133.1	163.2	158.2	153.2
72.5°	123.0	123.0	118.0	100.4	85.4	72.8	67.8	70.3	77.8	80.4	82.9
75°	85.4	87.9	87.9	77.8	62.8	52.7	45.2	37.7	30.1	25.1	22.6
77.5°	57.8	60.3	65.3	57.8	47.7	35.2	27.6	20.1	12.6	5.0	5.0
80°	50.2	57.8	62.8	57.8	50.2	37.7	27.6	15.1	7.5	0.0	0.0
82.5°	52.7	57.8	65.3	55.2	47.7	35.2	27.6	17.6	7.5	2.5	0.0
85°	12.6	12.6	15.1	17.6	22.6	25.1	20.1	12.6	7.5	2.5	0.0
87.5°	5.0	5.0	5.0	5.0	5.0	2.5	2.5	2.5	2.5	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)