

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: P528544

Luminaire Tested: **GALN-SA3C-827-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528544
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-SA3C-827-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1050mA 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: 13077 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

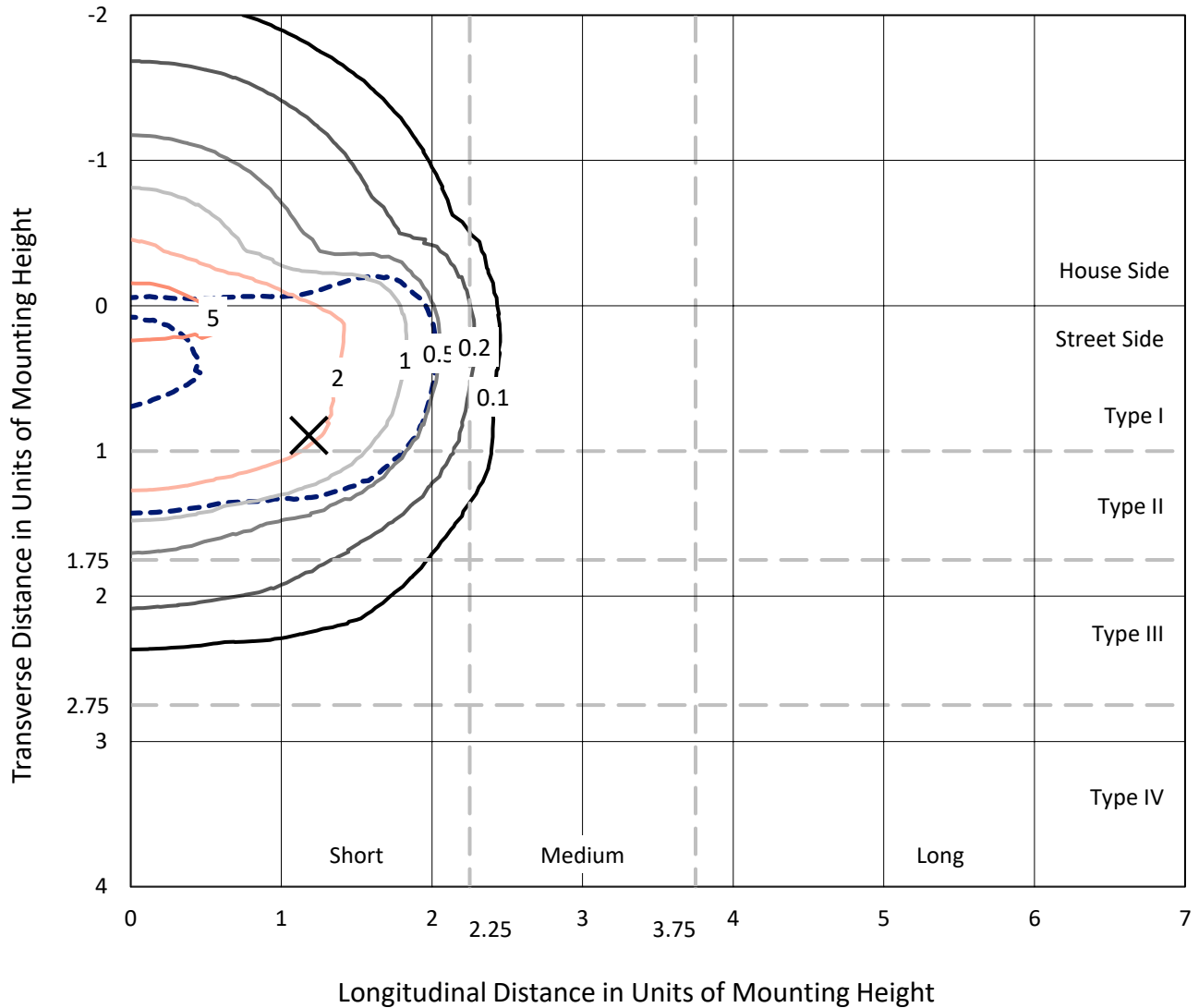
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

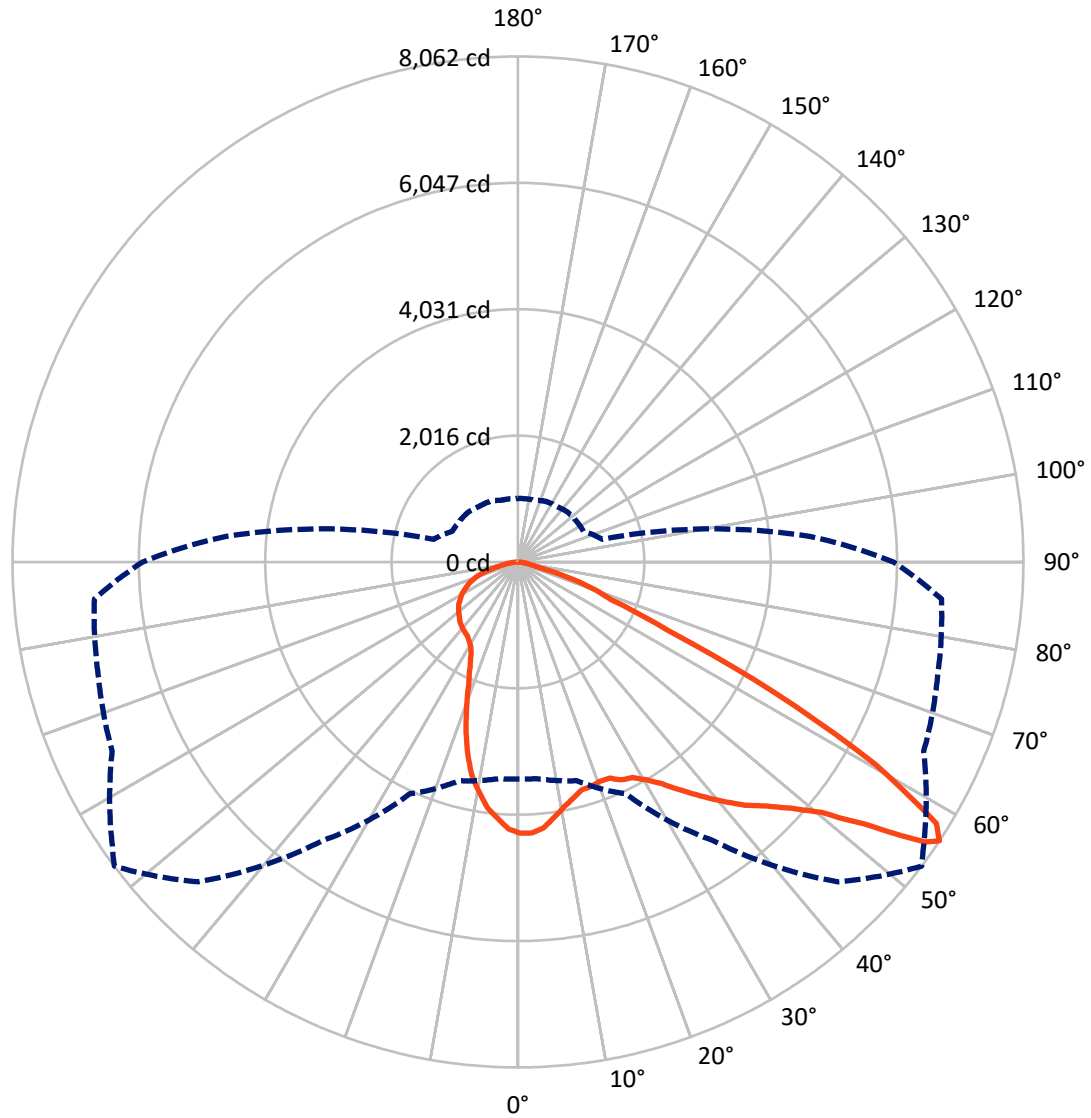
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	3816.2	0.0	3816.2
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	9260.9	0.0	9260.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	13077.0	0.0	13077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.0	2.9
10°-20°	956.6	7.3
20°-30°	1410.6	10.8
30°-40°	2015.4	15.4
40°-50°	2774.0	21.2
50°-60°	3278.1	25.1
60°-70°	1747.0	13.4
70°-80°	443.2	3.4
80°-90°	69.1	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°	13077.0	100.0
0°-180°	13077.0	100.0

Coefficient of Utilization

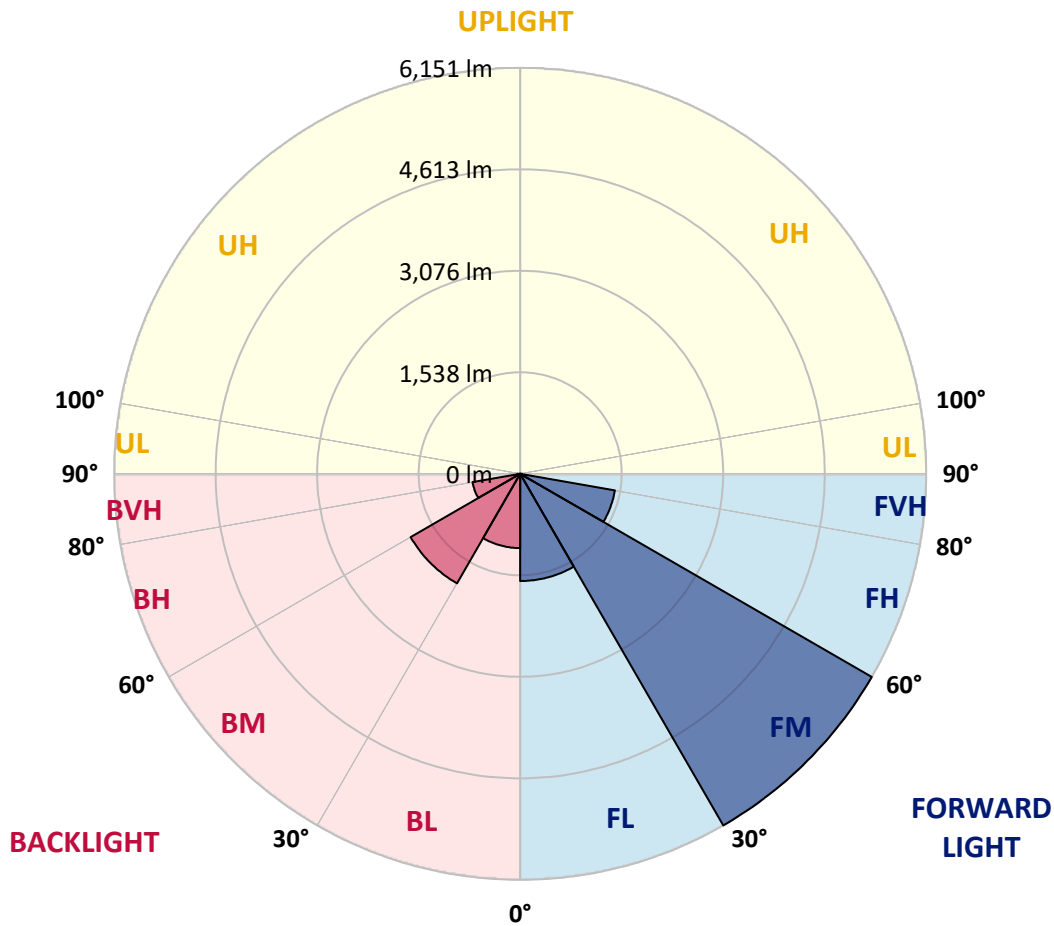


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1624.6	12.4			
FM (30°-60°)	6151.2	47.0			
FH (60°-80°)	1457.3	11.1			G1/1800
FVH (80°-90°)	27.8	0.2			G1/100
BL (0°-30°)	1125.5	8.6	B3/2500		
BM (30°-60°)	1916.3	14.7	B2/2500		
BH (60°-80°)	732.9	5.6	B2/1000		G2/1000
BVH (80°-90°)	41.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4
2.5°	4272.7	4235.8	4257.6	4249.2	4318.0	4338.1	4328.1	4336.5	4375.0	4356.6	4318.0
5°	3992.6	4044.6	4054.6	4079.8	4120.0	4198.9	4261.0	4277.7	4296.2	4381.7	4373.4
7.5°	3737.6	3772.8	3754.3	3828.2	3915.4	4042.9	4118.4	4131.8	4301.2	4348.2	4383.4
10°	3576.5	3541.3	3625.2	3645.3	3744.3	3890.2	3980.8	4036.2	4190.5	4376.7	4398.5
12.5°	3427.2	3415.5	3465.8	3522.8	3633.6	3784.5	3876.8	3898.6	4136.8	4333.1	4435.4
15°	3316.5	3303.1	3353.4	3395.3	3524.5	3658.7	3776.2	3838.2	4078.1	4307.9	4403.6
17.5°	3229.3	3227.6	3256.1	3331.6	3464.1	3576.5	3766.1	3769.4	4047.9	4346.5	4430.4
20°	3224.2	3222.6	3227.6	3311.5	3432.3	3569.8	3734.2	3764.4	4047.9	4319.7	4432.1
22.5°	3266.2	3239.3	3269.5	3323.2	3410.4	3581.6	3746.0	3813.1	4145.2	4452.2	4507.6
25°	3333.3	3340.0	3356.8	3375.2	3425.5	3608.4	3850.0	3905.3	4259.3	4566.3	4611.6
27.5°	3455.7	3452.4	3459.1	3469.2	3512.8	3633.6	3891.9	4034.5	4497.5	4769.3	4724.0
30°	3635.2	3623.5	3650.3	3685.6	3645.3	3714.1	4031.1	4138.5	4718.9	4973.9	4849.8
32.5°	3798.0	3841.6	3891.9	3907.0	3858.4	3871.8	4215.7	4324.7	4903.5	5225.6	5004.1
35°	4000.9	4036.2	4103.3	4150.2	4141.9	4101.6	4467.3	4611.6	5170.2	5410.1	5166.8
37.5°	4198.9	4240.8	4351.6	4490.8	4413.6	4395.2	4735.7	4854.8	5252.4	5509.1	5285.9
40°	4517.6	4515.9	4707.2	4779.3	4848.1	4816.2	5014.2	5054.4	5296.0	5487.2	5289.3
42.5°	4891.7	4868.2	5062.8	5175.2	5264.1	5267.5	5304.4	5291.0	5316.1	5376.5	5254.1
45°	5247.4	5297.7	5494.0	5695.3	5784.2	5794.2	5549.3	5524.2	5351.4	5344.7	5187.0
47.5°	5681.8	5693.6	5854.6	6119.7	6326.0	6255.6	5866.4	5811.0	5505.7	5557.7	5299.4
50°	5707.0	5794.2	5938.5	6250.5	6884.6	6866.2	6277.4	6173.4	5754.0	5859.7	5613.1
52.5°	5180.3	5160.1	5331.2	5841.2	6842.7	7473.5	6958.5	6710.2	6287.4	6206.9	6121.4
55°	3947.3	3994.2	4145.2	4660.2	5941.9	7481.8	7886.1	7683.2	6857.8	6720.2	6621.3
56°	3462.5	3469.2	3611.8	4081.5	5421.8	7215.1	8062.3	7897.9	7141.3	6931.6	6780.6
57.5°	2870.3	2831.7	2905.5	3162.2	4576.3	6651.5	7869.4	8030.4	7473.5	7159.8	6950.1
60°	2259.7	2251.3	2221.1	2268.0	2892.1	5010.8	6550.8	6913.2	7439.9	6945.0	6656.5
62.5°	1845.3	1803.4	1863.8	1930.9	2009.7	3108.5	4603.2	4816.2	5906.6	5544.3	5000.8
65°	1430.9	1410.8	1486.3	1704.4	1751.4	1974.5	2622.0	2786.4	3487.6	3425.5	3016.2
67.5°	984.7	988.1	1053.5	1385.7	1623.9	1603.7	1605.4	1691.0	1820.1	1352.1	1177.6
70°	624.0	622.4	657.6	892.5	1306.8	1320.2	1253.1	1228.0	1164.2	704.6	746.5
72.5°	400.9	389.2	407.6	493.2	676.1	781.7	805.2	820.3	674.4	553.6	600.6
75°	226.5	214.7	208.0	229.8	266.7	308.7	338.9	348.9	390.9	419.4	444.5
77.5°	68.8	62.1	75.5	100.7	132.5	177.8	216.4	223.1	263.4	296.9	322.1
80°	30.2	33.6	47.0	67.1	93.9	125.8	152.7	162.7	189.6	214.7	221.4
82.5°	18.5	20.1	31.9	45.3	65.4	88.9	109.0	112.4	139.2	159.4	164.4
85°	6.7	8.4	16.8	26.8	41.9	57.0	57.0	62.1	57.0	57.0	62.1
87.5°	0.0	0.0	1.7	3.4	3.4	5.0	6.7	6.7	8.4	10.1	11.7
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°	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4	4326.4
2.5°	4338.1	4329.7	4316.3	4267.7	4262.6	4247.5	4163.7	4150.2	4163.7	4123.4	4126.8
5°	4329.7	4354.9	4254.3	4205.6	4115.0	4049.6	3974.1	3935.5	3866.7	3823.1	3871.8
7.5°	4366.6	4356.6	4230.8	4125.1	3989.2	3823.1	3690.6	3615.1	3494.3	3460.8	3485.9
10°	4353.2	4299.5	4151.9	4012.7	3756.0	3610.1	3395.3	3187.3	3073.3	3014.5	3006.2
12.5°	4334.8	4319.7	4073.1	3833.2	3563.1	3256.1	2954.2	2757.9	2571.7	2491.2	2502.9
15°	4356.6	4229.1	3925.5	3621.8	3262.8	2860.2	2534.8	2281.5	2152.3	2100.3	2100.3
17.5°	4346.5	4185.5	3855.0	3385.3	2930.7	2454.2	2096.9	1944.3	1890.6	1890.6	1905.7
20°	4351.6	4214.0	3712.4	3148.8	2538.1	2066.7	1806.7	1751.4	1774.8	1783.2	1791.6
22.5°	4380.1	4120.0	3573.2	2888.7	2174.1	1768.1	1640.6	1642.3	1684.3	1729.5	1721.2
25°	4415.3	4083.1	3403.7	2630.4	1895.6	1622.2	1581.9	1576.9	1608.8	1632.3	1635.6
27.5°	4385.1	4019.4	3231.0	2308.3	1667.5	1524.9	1516.5	1519.9	1529.9	1576.9	1561.8
30°	4484.1	4037.8	3014.5	2038.2	1541.7	1493.0	1482.9	1477.9	1493.0	1506.4	1494.7
32.5°	4606.5	3972.4	2853.5	1778.2	1479.6	1469.5	1449.4	1442.7	1451.1	1437.7	1444.4
35°	4660.2	3960.7	2643.8	1592.0	1430.9	1422.6	1410.8	1409.1	1410.8	1399.1	1389.0
37.5°	4690.4	4016.0	2403.9	1506.4	1400.7	1409.1	1382.3	1378.9	1348.7	1355.5	1360.5
40°	4742.4	3930.5	2209.3	1424.2	1382.3	1365.5	1342.0	1337.0	1316.9	1305.1	1316.9
42.5°	4666.9	3905.3	2018.1	1389.0	1355.5	1337.0	1320.2	1291.7	1285.0	1274.9	1268.2
45°	4606.5	3761.1	1847.0	1345.4	1323.6	1313.5	1281.6	1251.4	1226.3	1236.4	1221.3
47.5°	4651.8	3710.7	1677.5	1308.5	1280.0	1268.2	1236.4	1212.9	1187.7	1176.0	1172.6
50°	4833.0	3804.7	1535.0	1281.6	1243.1	1236.4	1194.4	1167.6	1144.1	1135.7	1139.1
52.5°	5265.8	4061.3	1437.7	1226.3	1207.8	1177.6	1154.2	1120.6	1105.5	1078.7	1095.4
55°	5814.4	4479.0	1412.5	1174.3	1164.2	1137.4	1105.5	1080.3	1051.8	1030.0	1025.0
56°	5990.5	4678.7	1392.4	1154.2	1137.4	1122.3	1080.3	1065.2	1019.9	1014.9	1011.6
57.5°	6133.1	4854.8	1395.7	1115.6	1098.8	1085.4	1060.2	1023.3	993.1	974.7	983.0
60°	5811.0	4544.5	1332.0	1056.9	1053.5	1028.3	993.1	976.3	939.4	917.6	912.6
62.5°	4319.7	3085.0	1080.3	981.4	979.7	952.8	912.6	894.1	887.4	857.2	857.2
65°	2487.8	1934.2	934.4	919.3	905.9	879.0	838.8	823.7	806.9	796.8	788.4
67.5°	1061.9	1003.2	848.8	847.2	832.1	798.5	758.3	734.8	713.0	692.8	702.9
70°	770.0	781.7	766.6	758.3	739.8	697.9	662.6	634.1	600.6	587.1	597.2
72.5°	610.6	635.8	657.6	659.3	637.5	588.8	550.2	511.7	474.7	456.3	464.7
75°	463.0	479.8	501.6	506.6	474.7	441.2	404.3	364.0	335.5	313.7	317.1
77.5°	333.8	330.5	350.6	347.3	332.2	308.7	275.1	238.2	206.3	186.2	187.9
80°	228.1	233.2	244.9	243.2	224.8	209.7	184.5	154.3	130.8	114.1	110.7
82.5°	159.4	167.8	177.8	169.4	154.3	139.2	120.8	99.0	80.5	67.1	63.7
85°	57.0	65.4	75.5	80.5	85.6	82.2	68.8	55.4	40.3	33.6	31.9
87.5°	11.7	13.4	15.1	15.1	15.1	13.4	11.7	11.7	10.1	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

(END OF REPORT)