

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: P529248

Luminaire Tested: **GALN-SA4B-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529248  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4B-827-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13999 lumens  
Efficiency: N/A  
Efficacy: 85.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

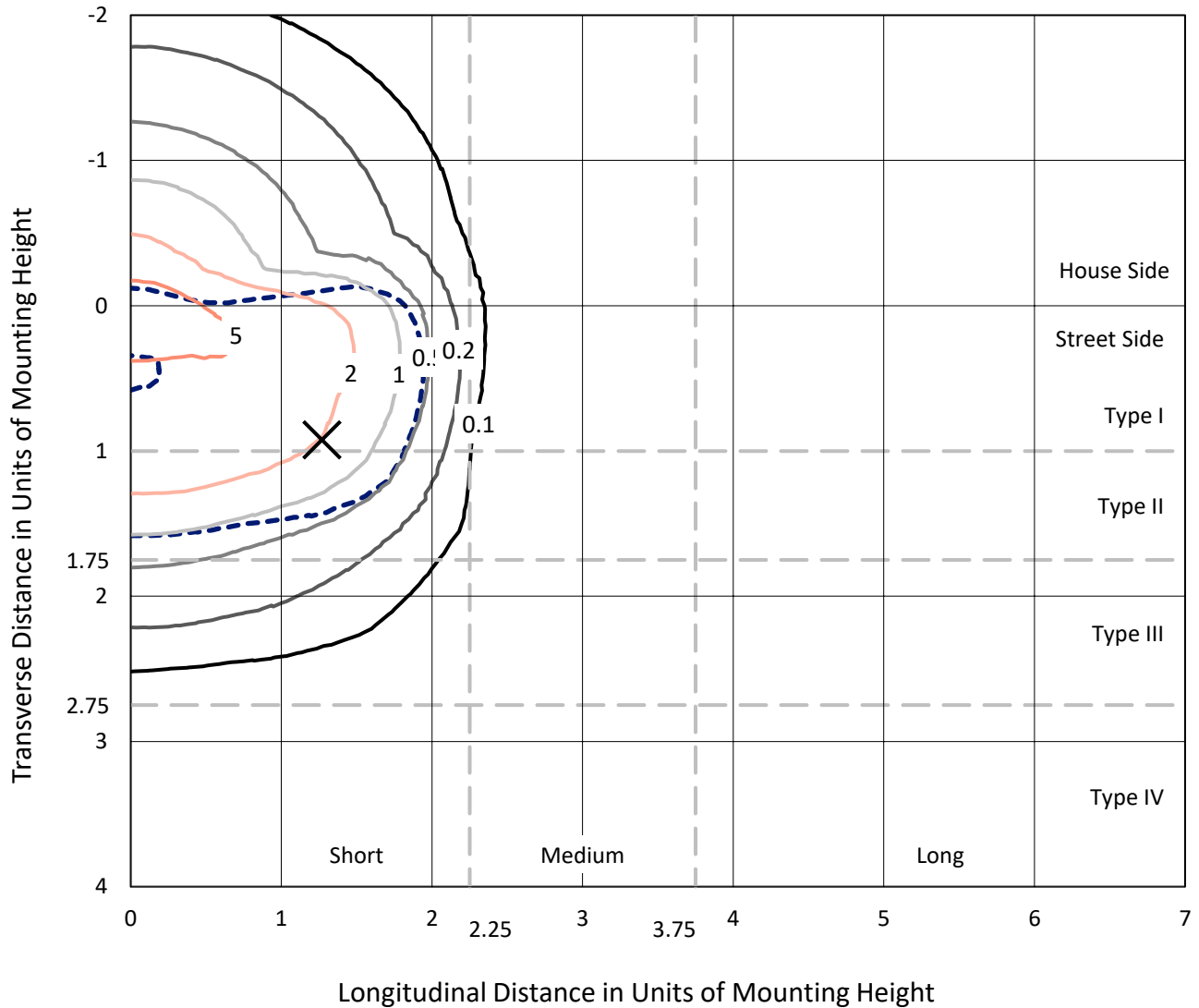
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

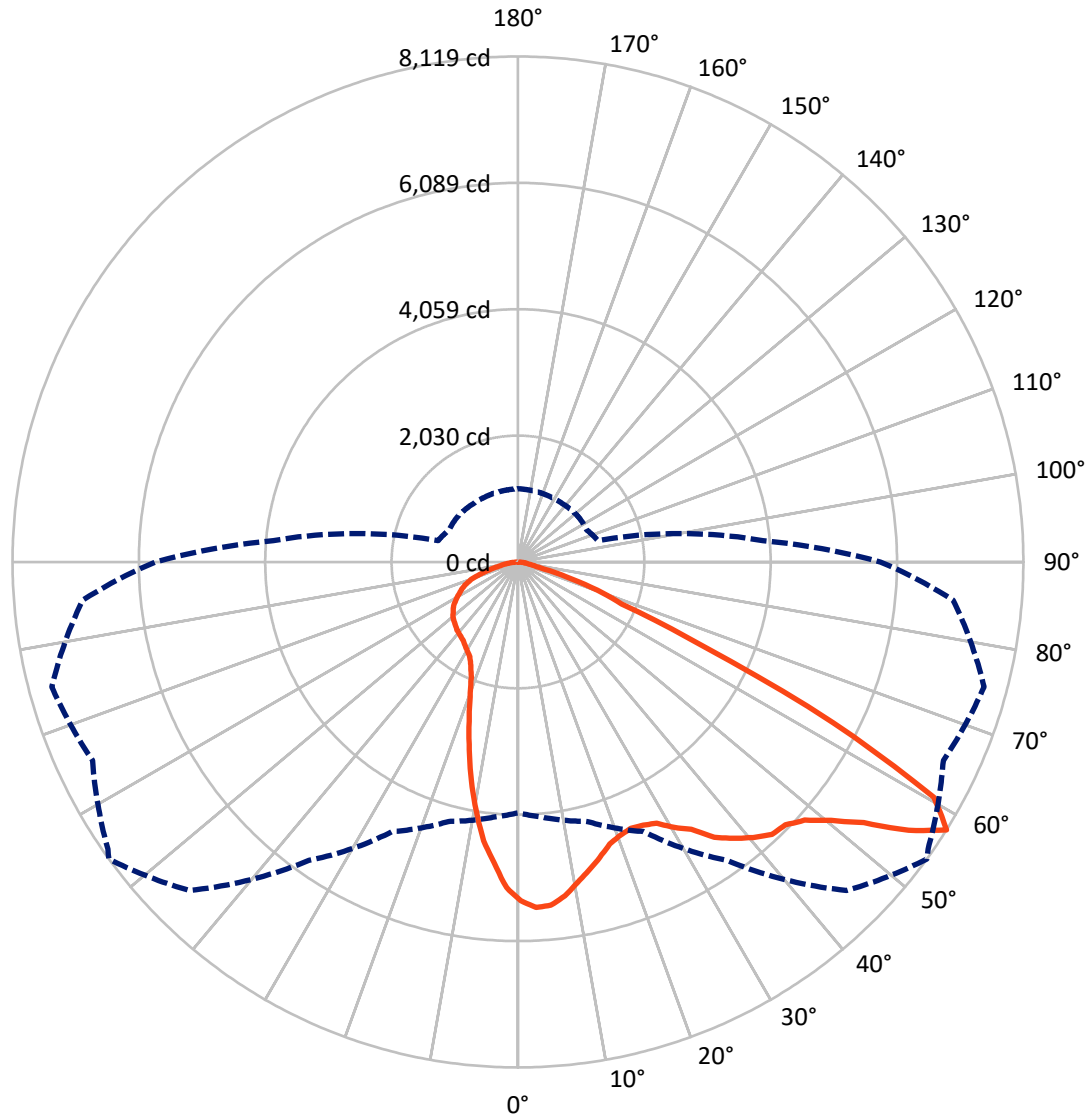
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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
<b>House Side</b>	Lumens	3872.9	0.0	3872.9
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	10126.1	0.0	10126.1
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	13999.0	0.0	13999.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	469.3	3.4
10°-20°	1086.5	7.8
20°-30°	1526.5	10.9
30°-40°	2134.1	15.2
40°-50°	2889.2	20.6
50°-60°	3519.2	25.1
60°-70°	1832.9	13.1
70°-80°	469.7	3.4
80°-90°	71.6	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°	13999.0	100.0
0°-180°	13999.0	100.0

**Coefficient of Utilization**



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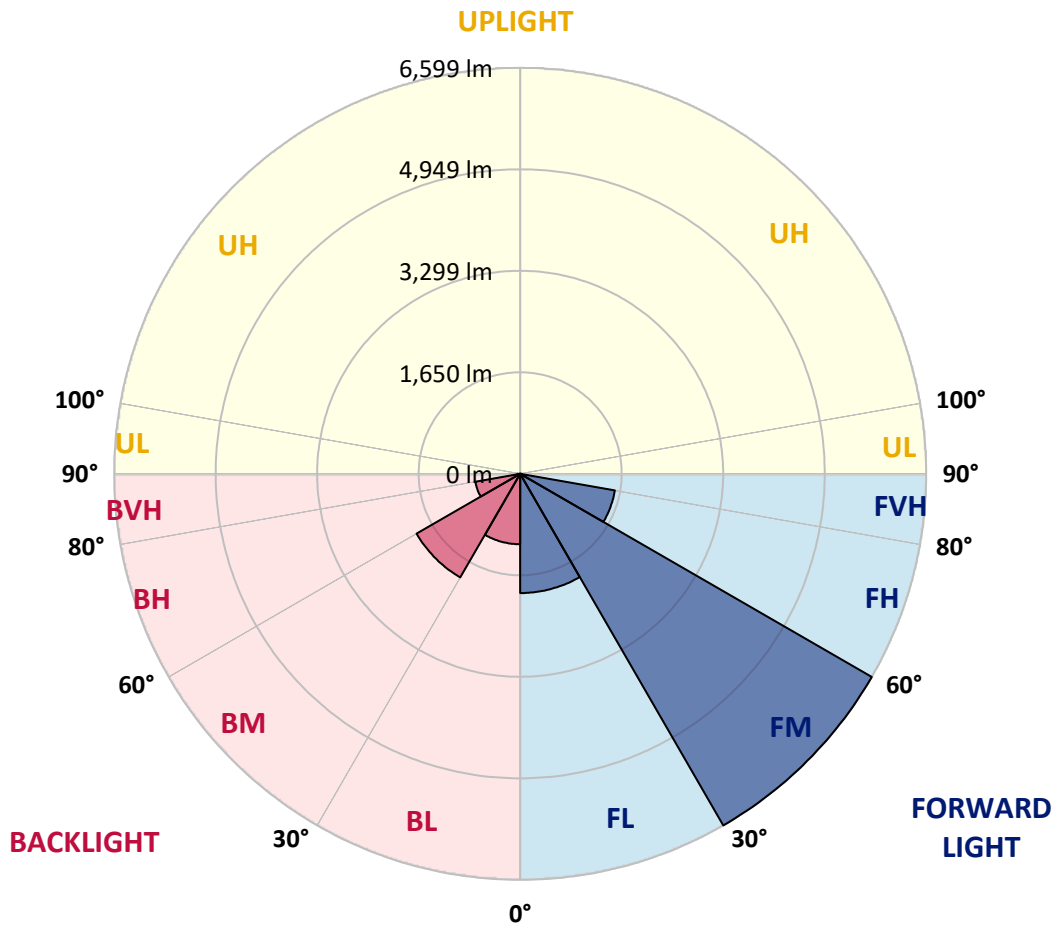
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1937.7	13.8			
FM (30°-60°)	6598.7	47.1			
FH (60°-80°)	1562.7	11.2			G1/1800
FVH (80°-90°)	27.1	0.2			G1/100
BL (0°-30°)	1144.6	8.2	B3/2500		
BM (30°-60°)	1943.8	13.9	B2/2500		
BH (60°-80°)	739.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	44.6	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°	54°	55°	65°	75°	85°
0°	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3
2.5°	5596.0	5574.4	5578.0	5606.8	5570.8	5556.4	5556.4	5486.2	5491.6	5443.1	5430.5
5°	5466.4	5416.1	5450.2	5493.4	5500.6	5515.0	5538.4	5520.4	5470.0	5417.9	5333.3
7.5°	5128.2	5173.1	5185.7	5216.3	5281.1	5340.5	5414.3	5363.9	5362.1	5309.9	5259.5
10°	4831.3	4804.3	4872.7	4917.6	5025.6	5124.6	5237.9	5232.5	5259.5	5200.1	5113.8
12.5°	4536.2	4514.6	4547.0	4649.5	4800.7	4944.6	5079.6	5029.2	5173.1	5162.4	4977.0
15°	4223.1	4239.3	4286.1	4381.4	4579.4	4752.1	4923.0	4924.8	5052.6	5095.8	4847.5
17.5°	4003.6	3985.6	4045.0	4187.1	4363.4	4570.4	4764.7	4804.3	5000.4	5025.6	4807.9
20°	3839.8	3865.0	3942.4	4014.4	4217.7	4467.8	4687.3	4701.7	4989.6	5058.0	4744.9
22.5°	3800.2	3785.8	3811.0	3928.0	4095.3	4367.0	4645.9	4699.9	4987.8	5047.2	4626.1
25°	3758.9	3805.6	3803.8	3920.8	4043.2	4286.1	4680.1	4739.5	5083.2	5103.0	4642.3
27.5°	3852.4	3847.0	3897.4	3906.4	4057.5	4307.7	4752.1	4797.1	5241.5	5225.3	4654.9
30°	3946.0	3919.0	3949.6	4055.7	4125.9	4431.8	4950.0	4946.4	5446.6	5435.9	4694.5
32.5°	4061.1	4048.5	4068.3	4161.9	4280.7	4597.4	5117.4	5223.5	5655.4	5723.7	4831.3
35°	4082.7	4134.9	4181.7	4307.7	4476.8	4865.5	5432.3	5520.4	5896.5	6110.6	5092.2
37.5°	4219.5	4239.3	4349.0	4572.2	4726.9	5223.5	5632.0	5687.8	6116.0	6358.9	5367.5
40°	4365.2	4388.6	4554.2	4788.1	5000.4	5457.4	5819.1	5837.1	6186.2	6549.7	5547.4
42.5°	4563.2	4584.8	4748.5	5041.8	5326.1	5657.2	5984.7	6004.4	6180.8	6769.2	5833.5
45°	4768.3	4820.5	5013.0	5345.9	5601.4	5891.1	6022.4	6103.4	6231.2	6965.3	6065.6
47.5°	5056.2	5104.8	5263.1	5588.8	5887.5	6096.2	6197.0	6276.2	6351.7	7136.2	6215.0
50°	5362.1	5371.1	5563.6	5858.7	6078.2	6328.3	6522.7	6549.7	6510.1	7334.2	6468.7
52.5°	5587.0	5615.8	5765.1	6053.0	6380.5	6688.2	6954.5	6983.3	6905.9	7407.9	6555.1
55°	5214.5	5198.3	5441.3	5824.5	6583.8	7224.4	7611.3	7632.9	7193.8	7636.5	6837.6
57.5°	4030.6	4107.9	4314.9	4777.3	5849.7	7461.9	8118.7	8041.3	7539.3	7751.6	7017.5
60°	2929.4	2911.4	3049.9	3359.4	4408.4	6430.9	7676.1	7755.2	7256.8	6986.9	5786.7
62.5°	2385.9	2360.8	2371.6	2382.3	2844.8	4268.1	5682.4	5680.6	5588.8	5022.0	3902.8
65°	1907.3	1966.7	1972.1	2053.1	2112.4	2549.7	3292.8	3469.2	3021.1	2477.7	1797.6
67.5°	1437.7	1416.1	1488.1	1776.0	1887.5	1840.7	1797.6	1817.3	1291.9	932.1	878.1
70°	847.5	838.5	924.9	1238.0	1554.6	1462.9	1354.9	1356.7	887.1	651.4	725.1
72.5°	464.2	462.4	480.4	628.0	883.5	917.7	813.3	838.5	529.0	527.2	566.8
75°	259.1	253.7	248.3	277.1	318.5	336.5	343.7	347.3	363.5	406.7	422.8
77.5°	95.4	91.8	91.8	106.2	135.0	169.1	214.1	217.7	257.3	295.1	311.3
80°	32.4	36.0	48.6	66.6	90.0	120.6	145.7	149.3	181.7	206.9	212.3
82.5°	19.8	21.6	32.4	46.8	64.8	84.6	108.0	109.8	135.0	151.1	158.3
85°	9.0	10.8	18.0	28.8	41.4	55.8	57.6	57.6	55.8	57.6	54.0
87.5°	0.0	0.0	3.6	3.6	3.6	5.4	7.2	5.4	9.0	10.8	10.8
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°	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3	5441.3
2.5°	5392.7	5372.9	5311.7	5257.7	5241.5	5169.5	5063.4	5076.0	4998.6	5034.6	4996.8
5°	5318.9	5252.3	5095.8	5029.2	4854.7	4775.5	4721.5	4586.6	4523.6	4511.0	4457.0
7.5°	5130.0	5088.6	4892.4	4712.5	4527.2	4368.8	4165.5	4027.0	3928.0	3901.0	3821.8
10°	4980.6	4888.8	4617.1	4343.6	4079.1	3803.8	3539.3	3332.4	3231.6	3114.7	3075.1
12.5°	4833.1	4694.5	4327.4	3976.6	3634.7	3287.4	2967.1	2715.2	2495.7	2443.5	2425.5
15°	4741.3	4500.2	4068.3	3645.5	3159.7	2706.2	2385.9	2220.4	2085.5	2029.7	2069.3
17.5°	4620.7	4340.0	3820.0	3256.8	2722.4	2305.0	2036.9	1934.3	1885.7	1891.1	1874.9
20°	4469.6	4188.9	3494.3	2904.2	2332.0	1999.1	1846.1	1808.4	1815.5	1828.1	1822.7
22.5°	4361.6	4005.4	3258.6	2544.3	2015.3	1829.9	1767.0	1740.0	1763.4	1774.2	1765.2
25°	4278.9	3848.8	2972.5	2225.8	1831.7	1734.6	1705.8	1704.0	1740.0	1754.4	1745.4
27.5°	4203.3	3703.1	2688.2	1982.9	1709.4	1660.8	1651.8	1673.4	1696.8	1711.2	1723.8
30°	4158.3	3591.5	2421.9	1779.6	1648.2	1624.8	1608.6	1628.4	1641.0	1655.4	1648.2
32.5°	4201.5	3512.3	2164.6	1664.4	1597.8	1574.4	1596.0	1583.4	1605.0	1617.6	1597.8
35°	4336.4	3442.2	1981.1	1603.2	1540.2	1549.2	1552.8	1547.4	1556.4	1545.6	1569.0
37.5°	4469.6	3417.0	1812.0	1551.0	1513.3	1513.3	1509.7	1498.9	1516.9	1513.3	1524.1
40°	4638.7	3433.2	1668.0	1495.3	1488.1	1484.5	1470.1	1468.3	1461.1	1462.9	1466.5
42.5°	4786.3	3469.2	1585.2	1459.3	1464.7	1471.9	1444.9	1423.3	1432.3	1414.3	1414.3
45°	4942.8	3501.5	1511.5	1434.1	1428.7	1426.9	1405.3	1392.7	1385.5	1387.3	1403.5
47.5°	5189.3	3548.3	1455.7	1399.9	1403.5	1376.5	1371.1	1354.9	1362.1	1372.9	1374.7
50°	5363.9	3647.3	1412.5	1360.3	1372.9	1354.9	1322.5	1315.3	1315.3	1333.3	1329.7
52.5°	5486.2	3785.8	1371.1	1317.1	1322.5	1308.1	1297.3	1281.1	1270.3	1295.5	1308.1
55°	5860.5	4016.2	1360.3	1281.1	1279.3	1264.9	1245.2	1229.0	1223.6	1227.2	1252.4
57.5°	5824.5	3944.2	1326.1	1218.2	1214.6	1194.8	1175.0	1169.6	1167.8	1171.4	1178.6
60°	4728.7	2913.2	1184.0	1146.2	1140.8	1137.2	1117.4	1095.8	1085.0	1095.8	1086.8
62.5°	3129.1	1950.5	1043.6	1059.8	1063.4	1054.4	1022.0	1000.4	1004.0	1016.6	996.8
65°	1536.6	1146.2	946.5	989.6	993.2	968.1	937.5	912.3	899.7	910.5	901.5
67.5°	878.1	876.3	867.3	912.3	910.5	885.3	836.7	815.1	793.5	797.1	791.7
70°	744.9	759.3	777.3	804.3	802.5	773.7	716.1	699.9	669.4	665.8	656.8
72.5°	586.6	611.8	651.4	671.2	655.0	619.0	581.2	554.2	527.2	511.0	516.4
75°	435.4	471.4	493.0	505.6	480.4	460.6	430.0	397.7	365.3	350.9	345.5
77.5°	316.7	327.5	347.3	356.3	340.1	320.3	302.3	269.9	239.3	219.5	214.1
80°	221.3	228.5	242.9	242.9	242.9	233.9	210.5	178.1	158.3	140.3	136.8
82.5°	154.7	161.9	176.3	169.1	167.3	156.5	142.1	117.0	95.4	82.8	79.2
85°	54.0	59.4	72.0	86.4	91.8	90.0	81.0	64.8	50.4	41.4	37.8
87.5°	12.6	12.6	14.4	12.6	12.6	14.4	12.6	12.6	12.6	9.0	7.2
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)