

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: P529092

Luminaire Tested: **GALN-SA4B-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529092  
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-727-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 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: 15926 lumens  
Efficiency: N/A  
Efficacy: 97.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

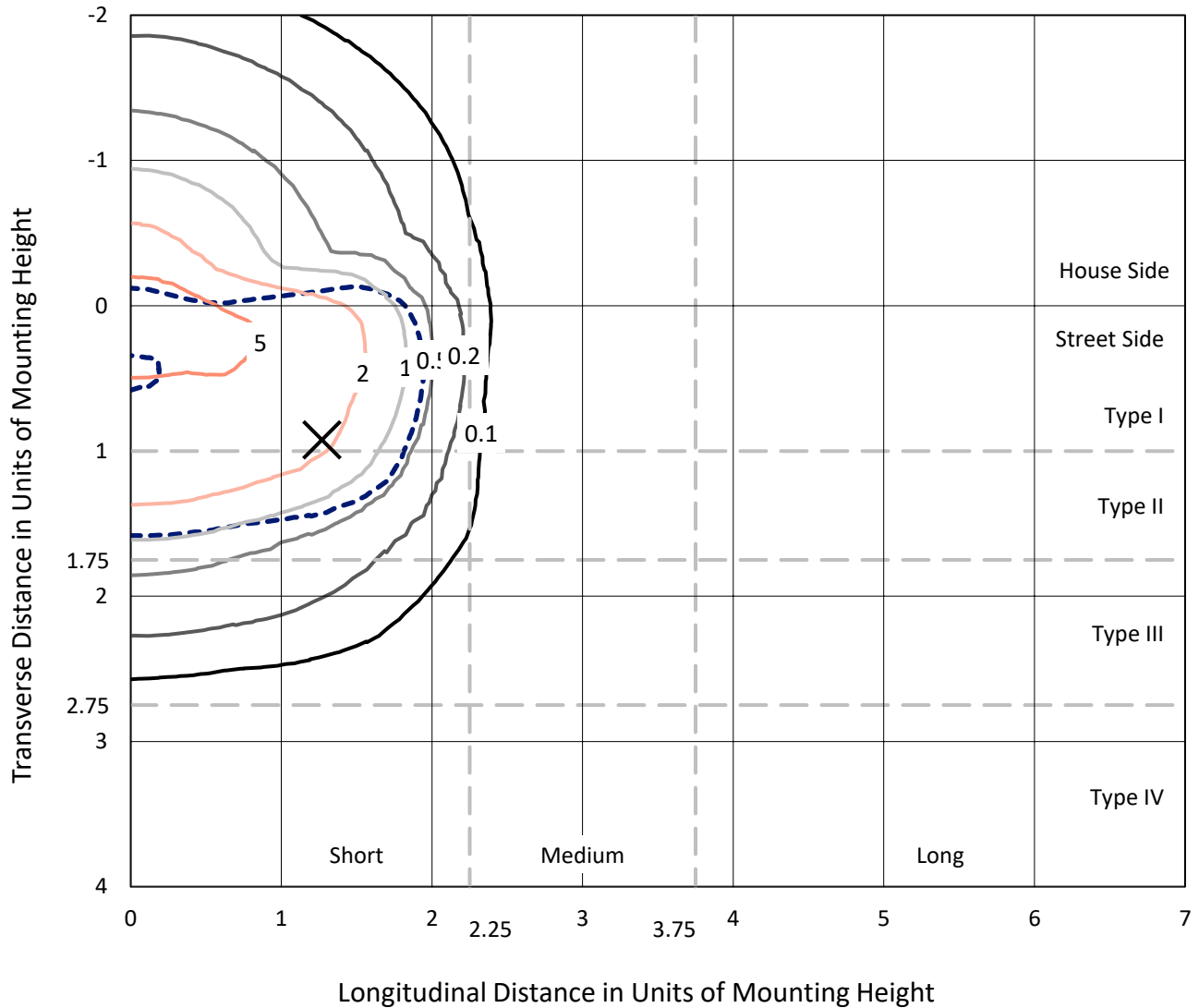
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

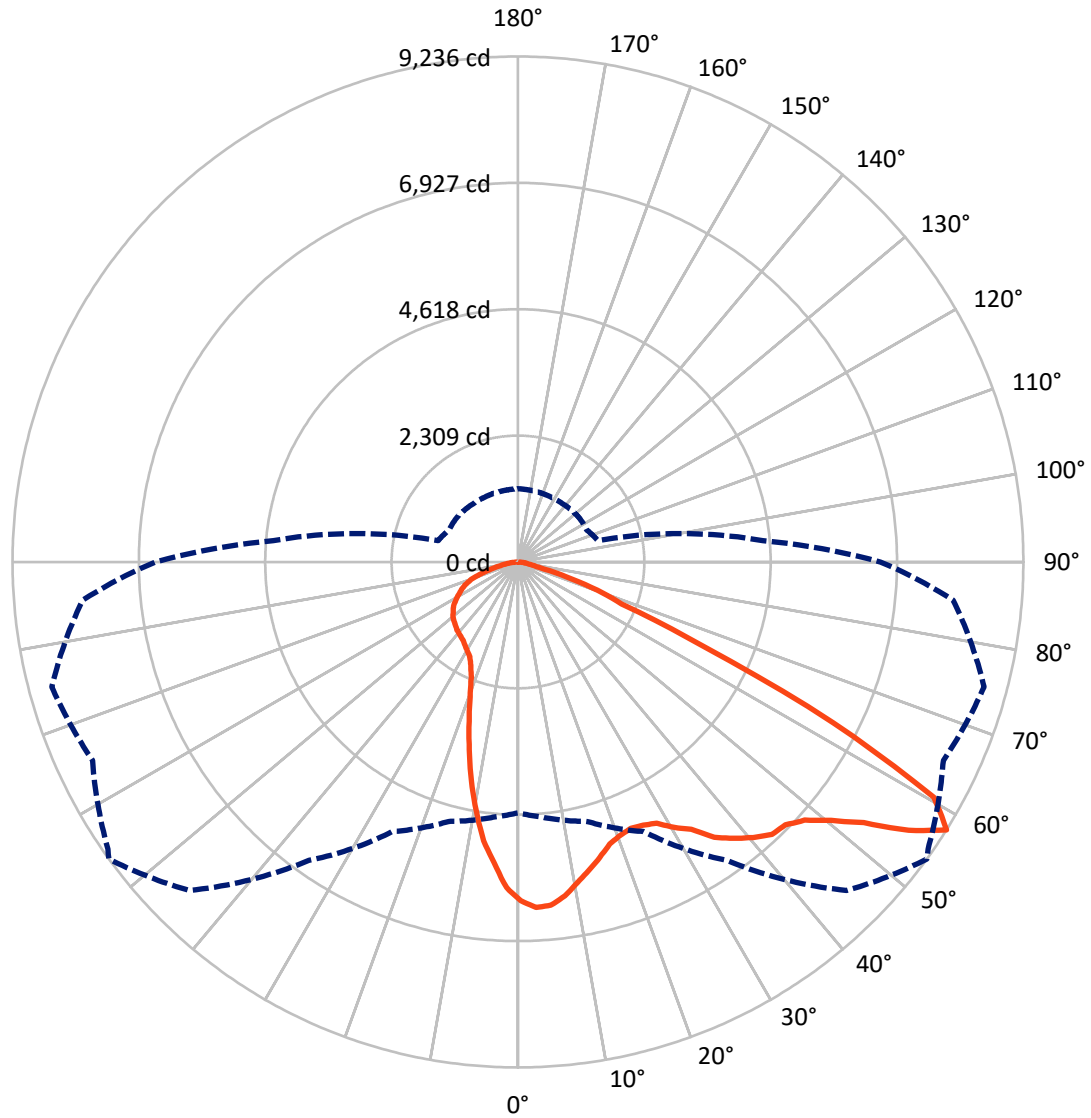
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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	4406.0	0.0	4406.0
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	11520.0	0.0	11520.0
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	15926.0	0.0	15926.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.9	3.4
10°-20°	1236.1	7.8
20°-30°	1736.7	10.9
30°-40°	2427.9	15.2
40°-50°	3286.9	20.6
50°-60°	4003.6	25.1
60°-70°	2085.2	13.1
70°-80°	534.3	3.4
80°-90°	81.5	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°	15926.0	100.0
0°-180°	15926.0	100.0

**Coefficient of Utilization**



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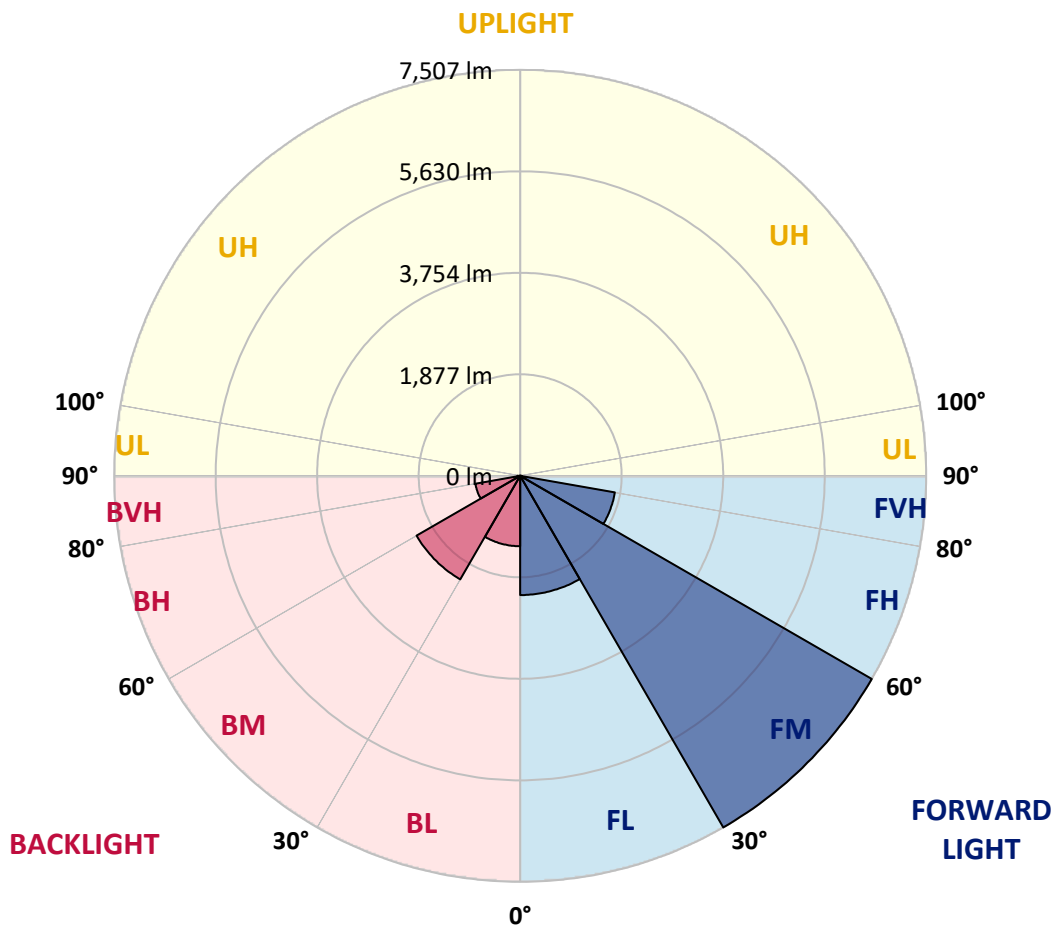
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.4	13.8			
FM (30°-60°)	7507.0	47.1			
FH (60°-80°)	1777.8	11.2			G1/1800
FVH (80°-90°)	30.8	0.2			G1/100
BL (0°-30°)	1302.2	8.2	B3/2500		
BM (30°-60°)	2211.3	13.9	B2/2500		
BH (60°-80°)	841.8	5.3	B2/1000		G2/1000
BVH (80°-90°)	50.7	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°	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3
2.5°	6366.3	6341.7	6345.8	6378.6	6337.6	6321.3	6321.3	6241.4	6247.6	6192.3	6178.0
5°	6218.9	6161.6	6200.5	6249.6	6257.8	6274.2	6300.8	6280.3	6223.0	6163.6	6067.4
7.5°	5834.1	5885.2	5899.6	5934.4	6008.1	6075.6	6159.5	6102.2	6100.2	6040.8	5983.5
10°	5496.3	5465.6	5543.4	5594.6	5717.4	5830.0	5958.9	5952.8	5983.5	5916.0	5817.7
12.5°	5160.6	5136.0	5172.9	5289.6	5461.5	5625.3	5778.8	5721.5	5885.2	5873.0	5662.1
15°	4804.4	4822.8	4876.1	4984.5	5209.7	5406.2	5600.7	5602.8	5748.1	5797.2	5514.7
17.5°	4554.7	4534.2	4601.7	4763.5	4964.1	5199.5	5420.6	5465.6	5688.7	5717.4	5469.7
20°	4368.4	4397.0	4485.1	4566.9	4798.3	5082.8	5332.5	5348.9	5676.4	5754.2	5398.0
22.5°	4323.4	4307.0	4335.6	4468.7	4659.1	4968.2	5285.5	5346.9	5674.4	5742.0	5262.9
25°	4276.3	4329.5	4327.4	4460.5	4599.7	4876.1	5324.4	5391.9	5782.9	5805.4	5281.4
27.5°	4382.7	4376.6	4433.9	4444.1	4616.1	4900.6	5406.2	5457.4	5963.0	5944.6	5295.7
30°	4489.2	4458.5	4493.3	4614.0	4693.9	5041.9	5631.4	5627.3	6196.4	6184.1	5340.7
32.5°	4620.2	4605.8	4628.4	4734.8	4869.9	5230.2	5821.8	5942.6	6433.9	6511.6	5496.3
35°	4644.7	4704.1	4757.3	4900.6	5093.0	5535.2	6180.0	6280.3	6708.2	6951.8	5793.1
37.5°	4800.3	4822.8	4947.7	5201.5	5377.6	5942.6	6407.2	6470.7	6957.9	7234.2	6106.3
40°	4966.1	4992.7	5181.1	5447.2	5688.7	6208.7	6620.1	6640.6	7037.7	7451.2	6311.0
42.5°	5191.3	5215.9	5402.1	5735.8	6059.2	6435.9	6808.5	6831.0	7031.6	7701.0	6636.5
45°	5424.7	5484.0	5703.1	6081.8	6372.4	6702.0	6851.4	6943.6	7088.9	7924.1	6900.6
47.5°	5752.2	5807.5	5987.6	6358.1	6697.9	6935.4	7050.0	7140.1	7226.1	8118.6	7070.5
50°	6100.2	6110.4	6329.5	6665.2	6914.9	7199.4	7420.5	7451.2	7406.2	8343.7	7359.1
52.5°	6356.1	6388.8	6558.7	6886.2	7258.8	7608.9	7911.8	7944.6	7856.5	8427.7	7457.4
55°	5932.3	5913.9	6190.3	6626.3	7490.1	8218.9	8659.0	8683.6	8184.1	8687.6	7778.8
57.5°	4585.4	4673.4	4908.8	5434.9	6654.9	8489.1	9236.3	9148.2	8577.1	8818.7	7983.5
60°	3332.6	3312.1	3469.7	3821.8	5015.3	7316.1	8732.7	8822.7	8255.7	7948.7	6583.3
62.5°	2714.4	2685.7	2698.0	2710.3	3236.4	4855.6	6464.6	6462.5	6358.1	5713.3	4440.0
65°	2169.9	2237.4	2243.6	2335.7	2403.2	2900.7	3746.1	3946.7	3437.0	2818.8	2045.0
67.5°	1635.6	1611.0	1692.9	2020.4	2147.3	2094.1	2045.0	2067.5	1469.8	1060.4	999.0
70°	964.2	953.9	1052.2	1408.4	1768.6	1664.2	1541.4	1543.5	1009.2	741.0	825.0
72.5°	528.1	526.1	546.6	714.4	1005.1	1044.0	925.3	953.9	601.8	599.8	644.8
75°	294.8	288.6	282.5	315.2	362.3	382.8	391.0	395.1	413.5	462.6	481.1
77.5°	108.5	104.4	104.4	120.8	153.5	192.4	243.6	247.7	292.7	335.7	354.1
80°	36.8	40.9	55.3	75.7	102.4	137.2	165.8	169.9	206.8	235.4	241.6
82.5°	22.5	24.6	36.8	53.2	73.7	96.2	122.8	124.9	153.5	172.0	180.1
85°	10.2	12.3	20.5	32.8	47.1	63.5	65.5	65.5	63.5	65.5	61.4
87.5°	0.0	0.0	4.1	4.1	4.1	6.1	8.2	6.1	10.2	12.3	12.3
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°	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3	6190.3
2.5°	6135.0	6112.5	6042.9	5981.5	5963.0	5881.2	5760.4	5774.7	5686.7	5727.6	5684.6
5°	6051.1	5975.3	5797.2	5721.5	5522.9	5432.8	5371.4	5217.9	5146.3	5131.9	5070.5
7.5°	5836.1	5789.0	5565.9	5361.2	5150.4	4970.2	4738.9	4581.3	4468.7	4438.0	4347.9
10°	5666.2	5561.8	5252.7	4941.6	4640.6	4327.4	4026.5	3791.1	3676.5	3543.4	3498.4
12.5°	5498.4	5340.7	4923.1	4524.0	4135.0	3739.9	3375.6	3089.0	2839.2	2779.9	2759.4
15°	5394.0	5119.7	4628.4	4147.3	3594.6	3078.8	2714.4	2526.0	2372.5	2309.1	2354.1
17.5°	5256.8	4937.5	4345.9	3705.1	3097.2	2622.3	2317.3	2200.6	2145.3	2151.4	2133.0
20°	5084.9	4765.5	3975.4	3303.9	2653.0	2274.3	2100.3	2057.3	2065.5	2079.8	2073.7
22.5°	4962.0	4556.7	3707.2	2894.5	2292.7	2081.8	2010.2	1979.5	2006.1	2018.4	2008.1
25°	4867.9	4378.6	3381.7	2532.2	2083.9	1973.3	1940.6	1938.5	1979.5	1995.9	1985.6
27.5°	4781.9	4212.8	3058.3	2255.8	1944.7	1889.4	1879.2	1903.7	1930.4	1946.7	1961.1
30°	4730.7	4085.9	2755.3	2024.5	1875.1	1848.5	1830.1	1852.6	1866.9	1883.3	1875.1
32.5°	4779.8	3995.8	2462.6	1893.5	1817.8	1791.2	1815.7	1801.4	1826.0	1840.3	1817.8
35°	4933.4	3916.0	2253.8	1823.9	1752.3	1762.5	1766.6	1760.5	1770.7	1758.4	1785.0
37.5°	5084.9	3887.3	2061.4	1764.5	1721.6	1721.6	1717.5	1705.2	1725.7	1721.6	1733.8
40°	5277.3	3905.8	1897.6	1701.1	1692.9	1688.8	1672.4	1670.4	1662.2	1664.2	1668.3
42.5°	5445.1	3946.7	1803.4	1660.2	1666.3	1674.5	1643.8	1619.2	1629.4	1609.0	1609.0
45°	5623.2	3983.5	1719.5	1631.5	1625.4	1623.3	1598.7	1584.4	1576.2	1578.3	1596.7
47.5°	5903.7	4036.8	1656.1	1592.6	1596.7	1566.0	1559.8	1541.4	1549.6	1561.9	1563.9
50°	6102.2	4149.4	1606.9	1547.6	1561.9	1541.4	1504.6	1496.4	1496.4	1516.9	1512.8
52.5°	6241.4	4307.0	1559.8	1498.4	1504.6	1488.2	1475.9	1457.5	1445.2	1473.9	1488.2
55°	6667.2	4569.0	1547.6	1457.5	1455.4	1439.1	1416.6	1398.1	1392.0	1396.1	1424.7
57.5°	6626.3	4487.1	1508.7	1385.8	1381.8	1359.2	1336.7	1330.6	1328.5	1332.6	1340.8
60°	5379.6	3314.2	1347.0	1304.0	1297.8	1293.7	1271.2	1246.6	1234.4	1246.6	1236.4
62.5°	3559.8	2219.0	1187.3	1205.7	1209.8	1199.6	1162.7	1138.2	1142.2	1156.6	1134.1
65°	1748.2	1304.0	1076.7	1125.9	1130.0	1101.3	1066.5	1037.9	1023.5	1035.8	1025.6
67.5°	999.0	996.9	986.7	1037.9	1035.8	1007.1	951.9	927.3	902.7	906.8	900.7
70°	847.5	863.9	884.3	915.0	913.0	880.2	814.7	796.3	761.5	757.4	747.2
72.5°	667.3	696.0	741.0	763.5	745.1	704.2	661.2	630.5	599.8	581.4	587.5
75°	495.4	536.3	560.9	575.2	546.6	524.0	489.2	452.4	415.5	399.2	393.0
77.5°	360.3	372.6	395.1	405.3	386.9	364.4	343.9	307.1	272.3	249.7	243.6
80°	251.8	260.0	276.4	276.4	276.4	266.1	239.5	202.7	180.1	159.7	155.6
82.5°	176.0	184.2	200.6	192.4	190.4	178.1	161.7	133.1	108.5	94.2	90.1
85°	61.4	67.6	81.9	98.3	104.4	102.4	92.1	73.7	57.3	47.1	43.0
87.5°	14.3	14.3	16.4	14.3	14.3	16.4	14.3	14.3	14.3	10.2	8.2
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)