

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: P529794

Luminaire Tested: **GALN-SA5A-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529794
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-SA5A-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 16204 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

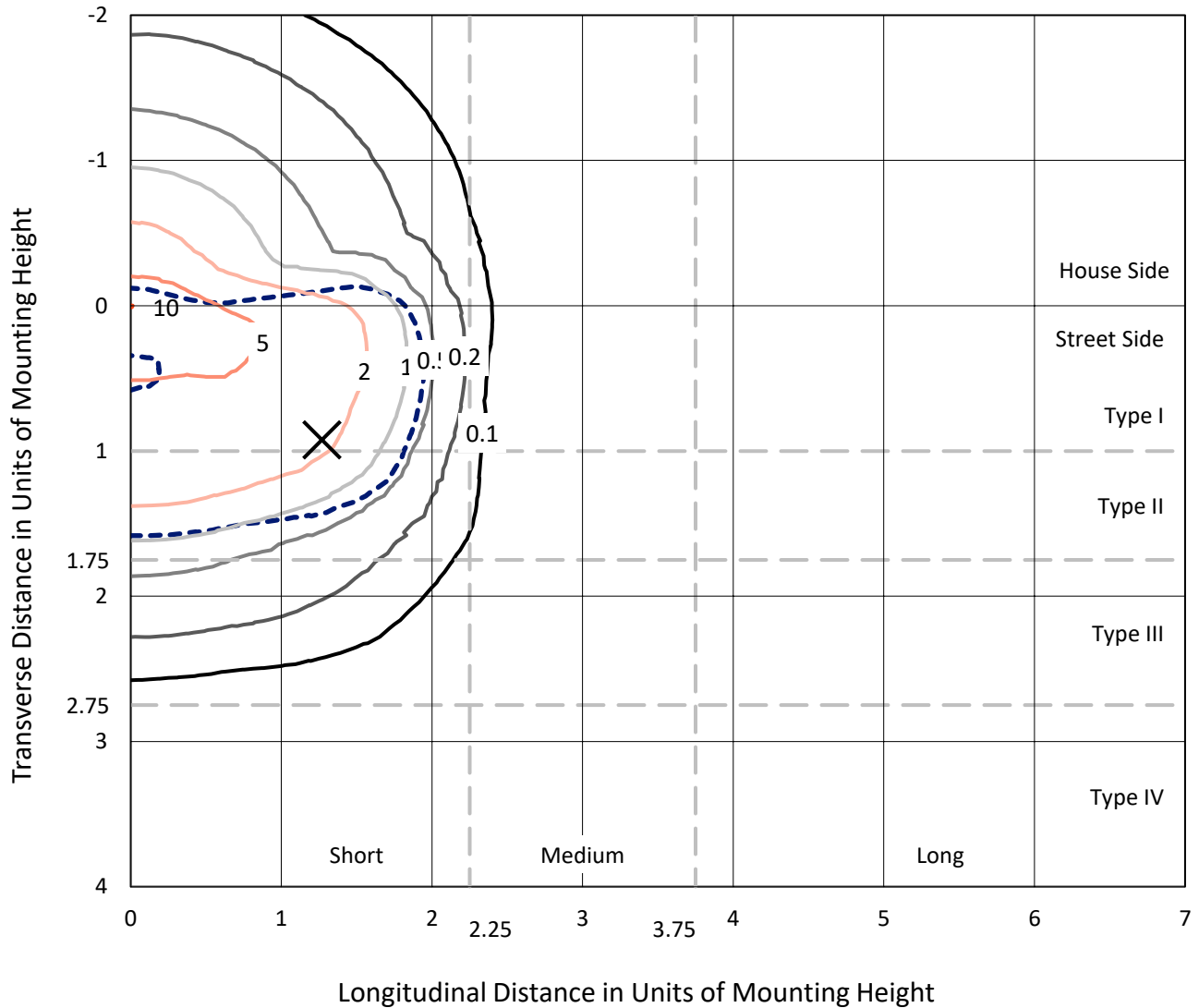
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

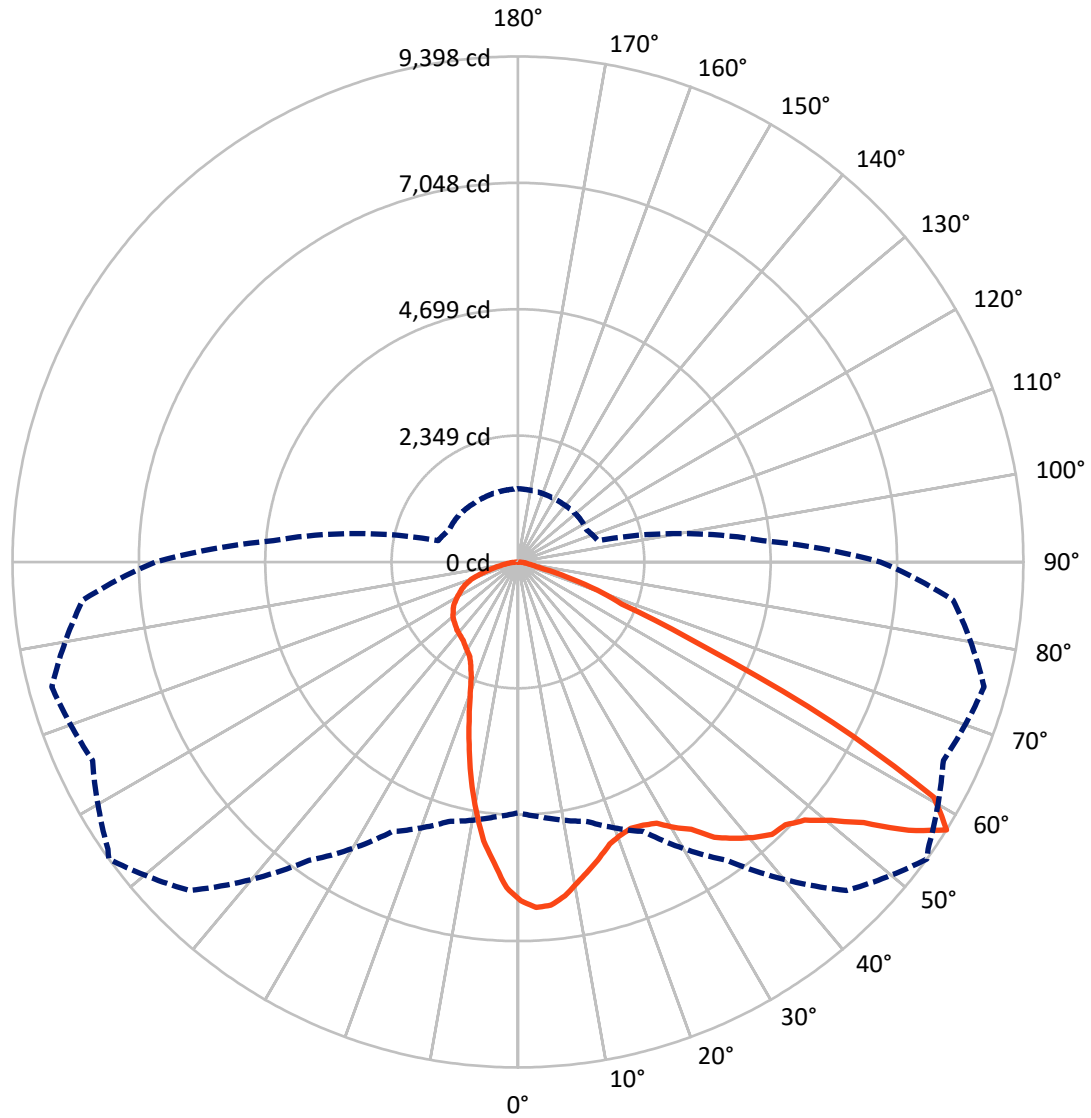
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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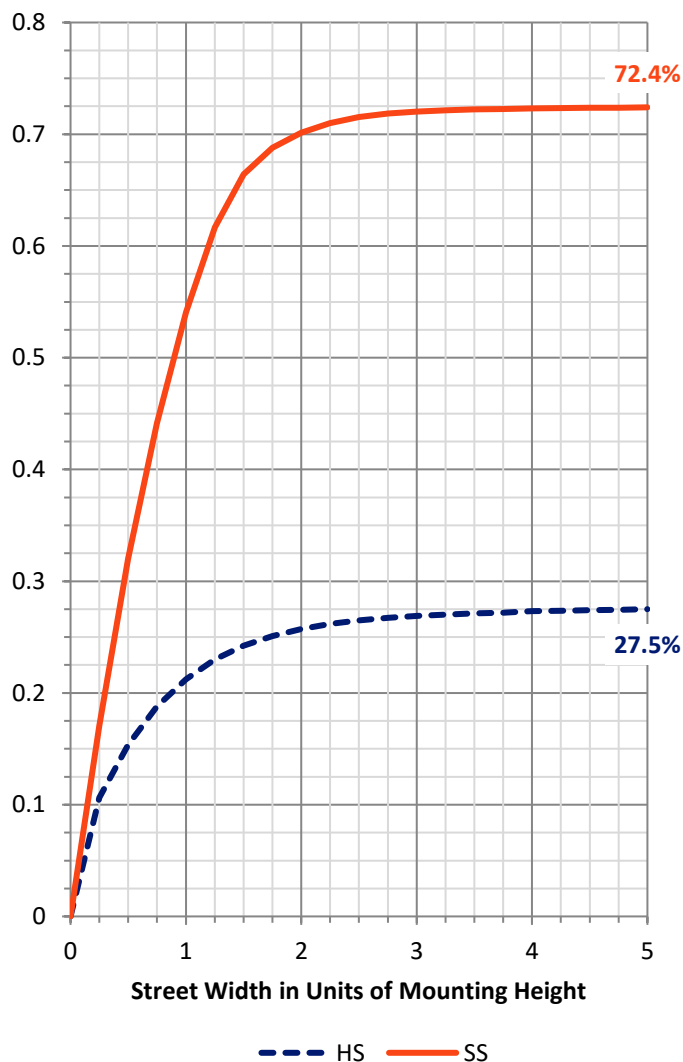
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4482.9	0.0	4482.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	11721.1	0.0	11721.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	16204.0	0.0	16204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	543.2	3.4
10°-20°	1257.6	7.8
20°-30°	1767.0	10.9
30°-40°	2470.3	15.2
40°-50°	3344.3	20.6
50°-60°	4073.5	25.1
60°-70°	2121.6	13.1
70°-80°	543.6	3.4
80°-90°	82.9	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°	16204.0	100.0
0°-180°	16204.0	100.0

Coefficient of Utilization



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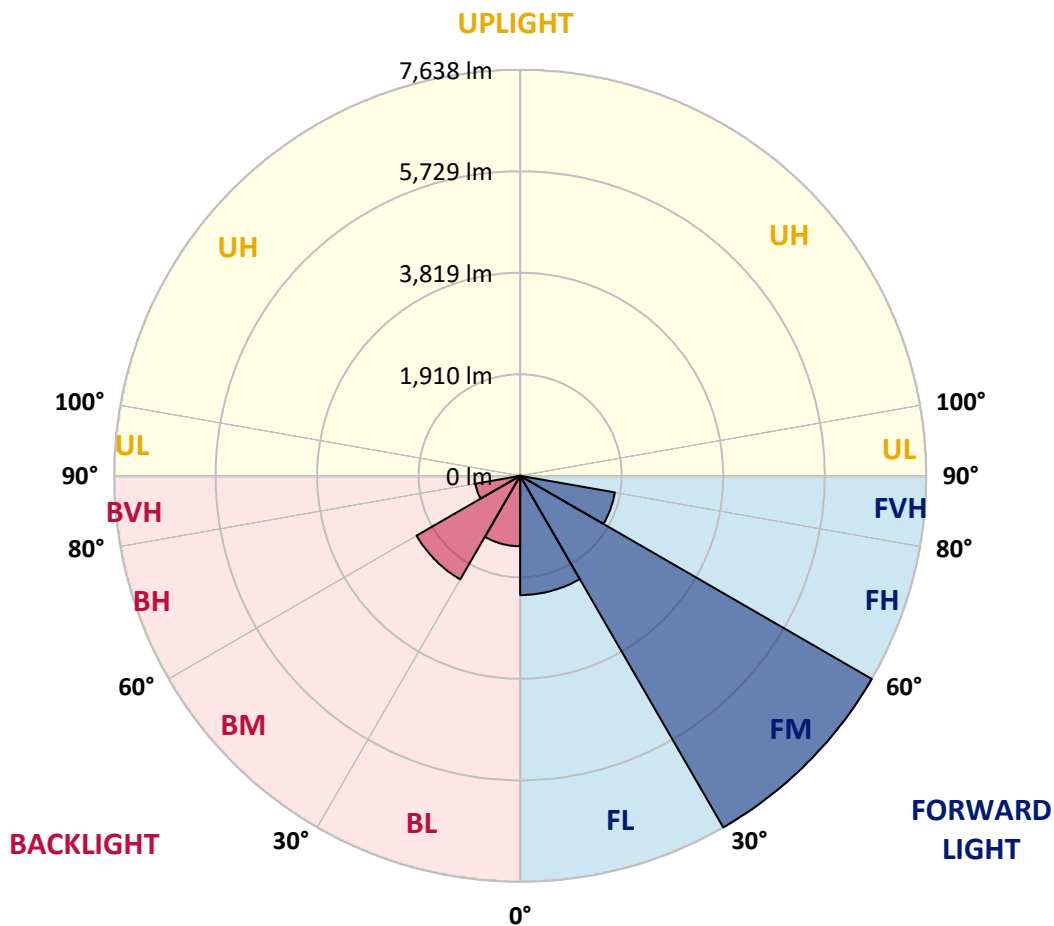
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2242.9	13.8			
FM (30°-60°)	7638.1	47.1			
FH (60°-80°)	1808.8	11.2			G2/5000
FVH (80°-90°)	31.3	0.2			G1/100
BL (0°-30°)	1324.9	8.2	B3/2500		
BM (30°-60°)	2249.9	13.9	B2/2500		
BH (60°-80°)	856.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	51.6	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°	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3
2.5°	6477.4	6452.4	6456.6	6489.9	6448.3	6431.6	6431.6	6350.4	6356.6	6300.4	6285.8
5°	6327.5	6269.2	6308.7	6358.7	6367.0	6383.7	6410.8	6390.0	6331.6	6271.2	6173.3
7.5°	5935.9	5988.0	6002.6	6038.0	6112.9	6181.7	6267.1	6208.7	6206.7	6146.3	6087.9
10°	5592.2	5561.0	5640.2	5692.2	5817.2	5931.7	6063.0	6056.7	6087.9	6019.2	5919.2
12.5°	5250.7	5225.7	5263.2	5381.9	5556.8	5723.5	5879.7	5821.4	5988.0	5975.5	5761.0
15°	4888.3	4907.0	4961.2	5071.6	5300.7	5500.6	5698.5	5700.6	5848.4	5898.4	5611.0
17.5°	4634.2	4613.3	4682.1	4846.6	5050.7	5290.2	5515.2	5561.0	5788.0	5817.2	5565.2
20°	4444.6	4473.8	4563.4	4646.7	4882.0	5171.5	5425.6	5442.3	5775.5	5854.7	5492.3
22.5°	4398.8	4382.2	4411.3	4546.7	4740.4	5054.9	5377.7	5440.2	5773.5	5842.2	5354.8
25°	4350.9	4405.1	4403.0	4538.4	4680.0	4961.2	5417.3	5486.0	5883.8	5906.7	5373.6
27.5°	4459.2	4453.0	4511.3	4521.7	4696.7	4986.2	5500.6	5552.7	6067.1	6048.4	5388.1
30°	4567.5	4536.3	4571.7	4694.6	4775.8	5129.9	5729.7	5725.5	6304.6	6292.1	5434.0
32.5°	4700.8	4686.2	4709.2	4817.5	4954.9	5321.5	5923.4	6046.3	6546.2	6625.3	5592.2
35°	4725.8	4786.2	4840.4	4986.2	5181.9	5631.8	6287.9	6390.0	6825.3	7073.1	5894.3
37.5°	4884.1	4907.0	5034.1	5292.3	5471.4	6046.3	6519.1	6583.6	7079.3	7360.5	6212.9
40°	5052.8	5079.9	5271.5	5542.3	5788.0	6317.1	6735.7	6756.5	7160.6	7581.3	6421.2
42.5°	5281.9	5306.9	5496.4	5835.9	6165.0	6548.2	6927.3	6950.2	7154.3	7835.4	6752.4
45°	5519.4	5579.8	5802.6	6187.9	6483.7	6819.0	6971.0	7064.8	7212.6	8062.4	7021.0
47.5°	5852.6	5908.8	6092.1	6469.1	6814.8	7056.4	7173.1	7264.7	7352.2	8260.3	7193.9
50°	6206.7	6217.1	6439.9	6781.5	7035.6	7325.1	7550.1	7581.3	7535.5	8489.4	7487.6
52.5°	6467.0	6500.3	6673.2	7006.5	7385.5	7741.7	8049.9	8083.2	7993.7	8574.8	7587.5
55°	6035.9	6017.1	6298.3	6741.9	7620.9	8362.3	8810.1	8835.1	8326.9	8839.3	7914.5
57.5°	4665.4	4755.0	4994.5	5529.8	6771.1	8637.3	9397.5	9307.9	8726.8	8972.6	8122.8
60°	3390.8	3369.9	3530.3	3888.5	5102.8	7443.8	8885.1	8976.8	8399.8	8087.4	6698.2
62.5°	2761.8	2732.6	2745.1	2757.6	3292.9	4940.3	6577.4	6575.3	6469.1	5813.0	4517.5
65°	2207.7	2276.5	2282.7	2376.4	2445.2	2951.3	3811.5	4015.6	3497.0	2868.0	2080.7
67.5°	1664.1	1639.1	1722.5	2055.7	2184.8	2130.7	2080.7	2103.6	1495.4	1078.9	1016.4
70°	981.0	970.6	1070.5	1432.9	1799.5	1693.3	1568.3	1570.4	1026.8	754.0	839.4
72.5°	537.4	535.3	556.1	726.9	1022.6	1062.2	941.4	970.6	612.3	610.3	656.1
75°	299.9	293.7	287.4	320.7	368.7	389.5	397.8	402.0	420.7	470.7	489.5
77.5°	110.4	106.2	106.2	122.9	156.2	195.8	247.9	252.0	297.8	341.6	360.3
80°	37.5	41.7	56.2	77.1	104.1	139.5	168.7	172.9	210.4	239.5	245.8
82.5°	22.9	25.0	37.5	54.2	75.0	97.9	125.0	127.0	156.2	175.0	183.3
85°	10.4	12.5	20.8	33.3	47.9	64.6	66.6	66.6	64.6	66.6	62.5
87.5°	0.0	0.0	4.2	4.2	4.2	6.2	8.3	6.2	10.4	12.5	12.5
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°	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3	6298.3
2.5°	6242.1	6219.2	6148.3	6085.9	6067.1	5983.8	5860.9	5875.5	5785.9	5827.6	5783.9
5°	6156.7	6079.6	5898.4	5821.4	5619.3	5527.7	5465.2	5309.0	5236.1	5221.5	5159.0
7.5°	5938.0	5890.1	5663.1	5454.8	5240.3	5057.0	4821.6	4661.2	4546.7	4515.5	4423.8
10°	5765.1	5658.9	5344.4	5027.8	4721.6	4403.0	4096.8	3857.3	3740.7	3605.3	3559.5
12.5°	5594.3	5434.0	5009.1	4602.9	4207.2	3805.2	3434.5	3142.9	2888.8	2828.4	2807.6
15°	5488.1	5209.0	4709.2	4219.7	3657.4	3132.5	2761.8	2570.1	2413.9	2349.4	2395.2
17.5°	5348.6	5023.7	4421.7	3769.8	3151.2	2668.0	2357.7	2239.0	2182.7	2189.0	2170.3
20°	5173.6	4848.7	4044.7	3361.6	2699.3	2314.0	2136.9	2093.2	2101.5	2116.1	2109.9
22.5°	5048.6	4636.3	3771.9	2945.0	2332.7	2118.2	2045.3	2014.0	2041.1	2053.6	2043.2
25°	4952.8	4455.1	3440.7	2576.4	2120.3	2007.8	1974.5	1972.4	2014.0	2030.7	2020.3
27.5°	4865.4	4286.3	3111.7	2295.2	1978.6	1922.4	1912.0	1937.0	1964.1	1980.7	1995.3
30°	4813.3	4157.2	2803.4	2059.9	1907.8	1880.7	1862.0	1884.9	1899.5	1916.2	1907.8
32.5°	4863.3	4065.6	2505.6	1926.6	1849.5	1822.4	1847.4	1832.8	1857.8	1872.4	1849.5
35°	5019.5	3984.3	2293.1	1855.8	1782.9	1793.3	1797.4	1791.2	1801.6	1789.1	1816.2
37.5°	5173.6	3955.2	2097.4	1795.4	1751.6	1751.6	1747.4	1735.0	1755.8	1751.6	1764.1
40°	5369.4	3973.9	1930.7	1730.8	1722.5	1718.3	1701.6	1699.5	1691.2	1693.3	1697.5
42.5°	5540.2	4015.6	1834.9	1689.1	1695.4	1703.7	1672.5	1647.5	1657.9	1637.1	1637.1
45°	5721.4	4053.1	1749.5	1660.0	1653.7	1651.6	1626.6	1612.1	1603.7	1605.8	1624.6
47.5°	6006.7	4107.2	1685.0	1620.4	1624.6	1593.3	1587.1	1568.3	1576.7	1589.2	1591.2
50°	6208.7	4221.8	1635.0	1574.6	1589.2	1568.3	1530.8	1522.5	1522.5	1543.3	1539.2
52.5°	6350.4	4382.2	1587.1	1524.6	1530.8	1514.2	1501.7	1482.9	1470.4	1499.6	1514.2
55°	6783.6	4648.8	1574.6	1482.9	1480.9	1464.2	1441.3	1422.5	1416.3	1420.5	1449.6
57.5°	6741.9	4565.4	1535.0	1410.0	1405.9	1383.0	1360.1	1353.8	1351.7	1355.9	1364.2
60°	5473.5	3372.0	1370.5	1326.7	1320.5	1316.3	1293.4	1268.4	1255.9	1268.4	1258.0
62.5°	3621.9	2257.7	1208.0	1226.8	1230.9	1220.5	1183.0	1158.0	1162.2	1176.8	1153.9
65°	1778.7	1326.7	1095.5	1145.5	1149.7	1120.5	1085.1	1056.0	1041.4	1053.9	1043.5
67.5°	1016.4	1014.3	1003.9	1056.0	1053.9	1024.7	968.5	943.5	918.5	922.7	916.4
70°	862.3	878.9	899.8	931.0	928.9	895.6	828.9	810.2	774.8	770.6	760.2
72.5°	679.0	708.1	754.0	776.9	758.1	716.5	672.7	641.5	610.3	591.5	597.8
75°	504.0	545.7	570.7	585.3	556.1	533.2	497.8	460.3	422.8	406.1	399.9
77.5°	366.6	379.1	402.0	412.4	393.6	370.7	349.9	312.4	277.0	254.1	247.9
80°	256.2	264.5	281.2	281.2	281.2	270.8	243.7	206.2	183.3	162.5	158.3
82.5°	179.1	187.4	204.1	195.8	193.7	181.2	164.5	135.4	110.4	95.8	91.6
85°	62.5	68.7	83.3	100.0	106.2	104.1	93.7	75.0	58.3	47.9	43.7
87.5°	14.6	14.6	16.7	14.6	14.6	16.7	14.6	14.6	14.6	10.4	8.3
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)