

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: P453922

Luminaire Tested: **GALN-SA5A-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19519 lumens
Efficiency: N/A
Efficacy: 126.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

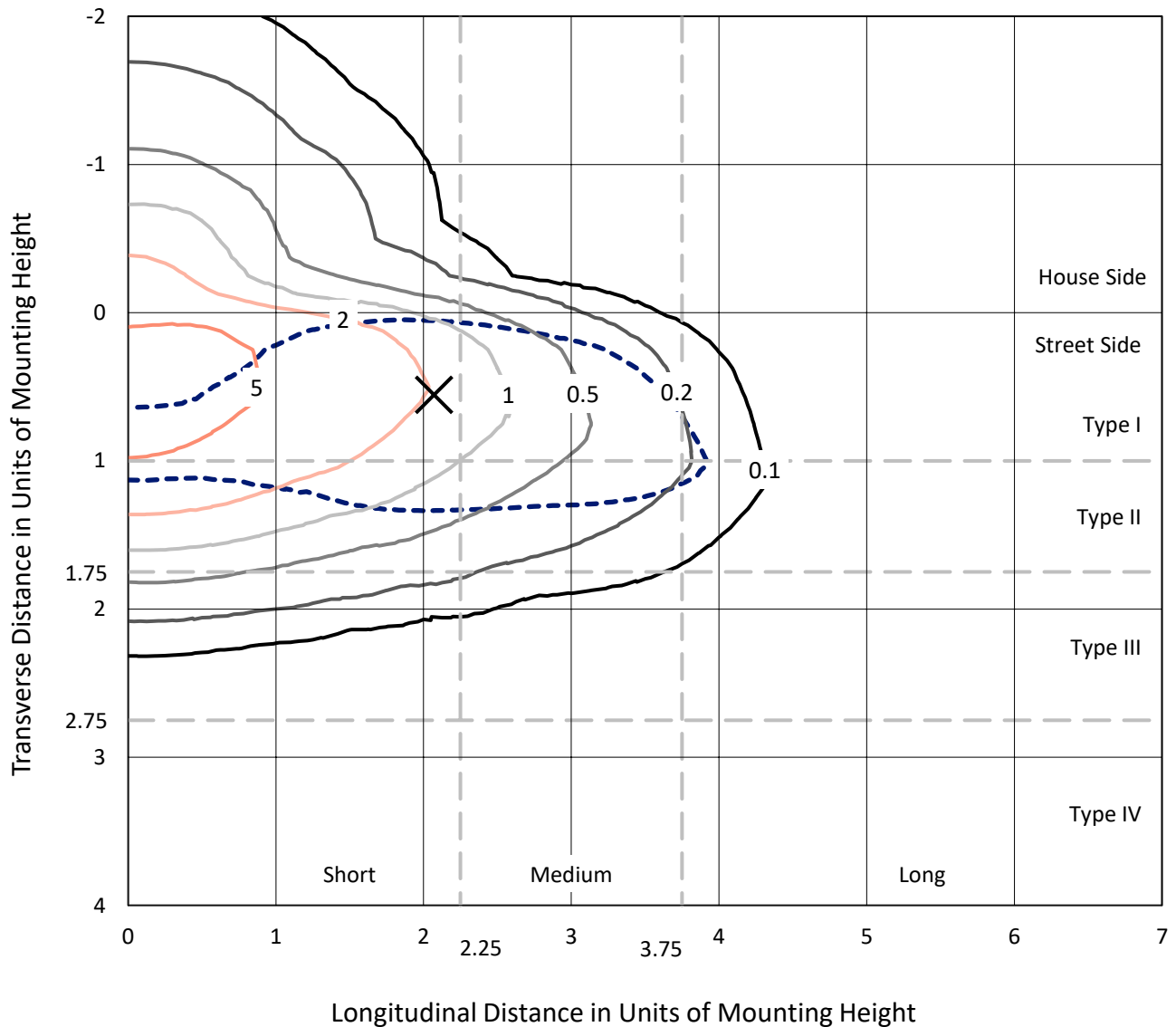
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

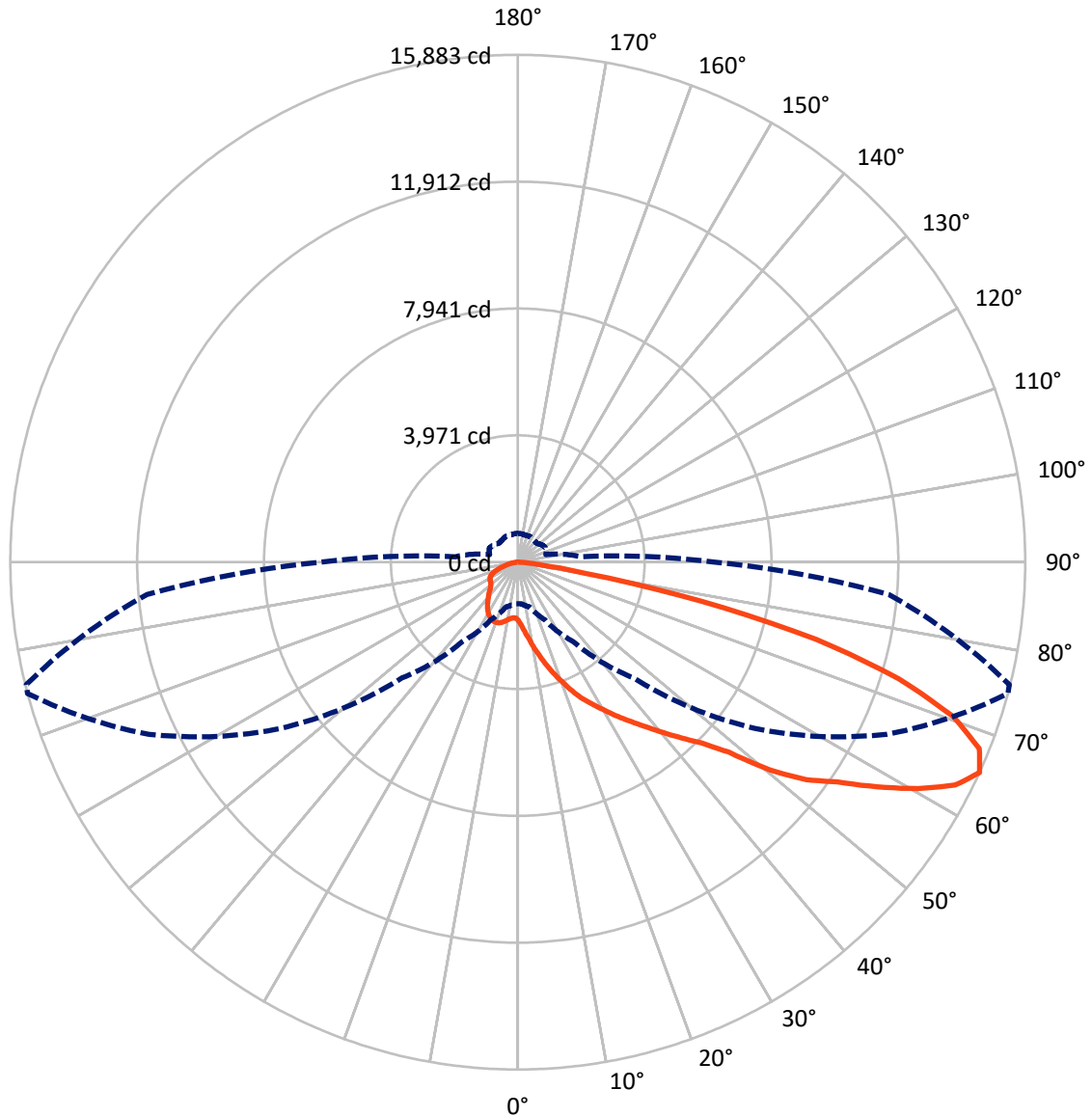
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3281.4	0.0	3281.4
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16237.6	0.0	16237.6
	% Fixture	83.2	0.0	83.2
Total	Lumens	19519.0	0.0	19519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.3	1.1
10°-20°	863.0	4.4
20°-30°	1667.1	8.5
30°-40°	2707.9	13.9
40°-50°	3725.0	19.1
50°-60°	4397.9	22.5
60°-70°	3853.3	19.7
70°-80°	1839.6	9.4
80°-90°	244.8	1.3
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°	19519.0	100.0
0°-180°	19519.0	100.0

Coefficient of Utilization



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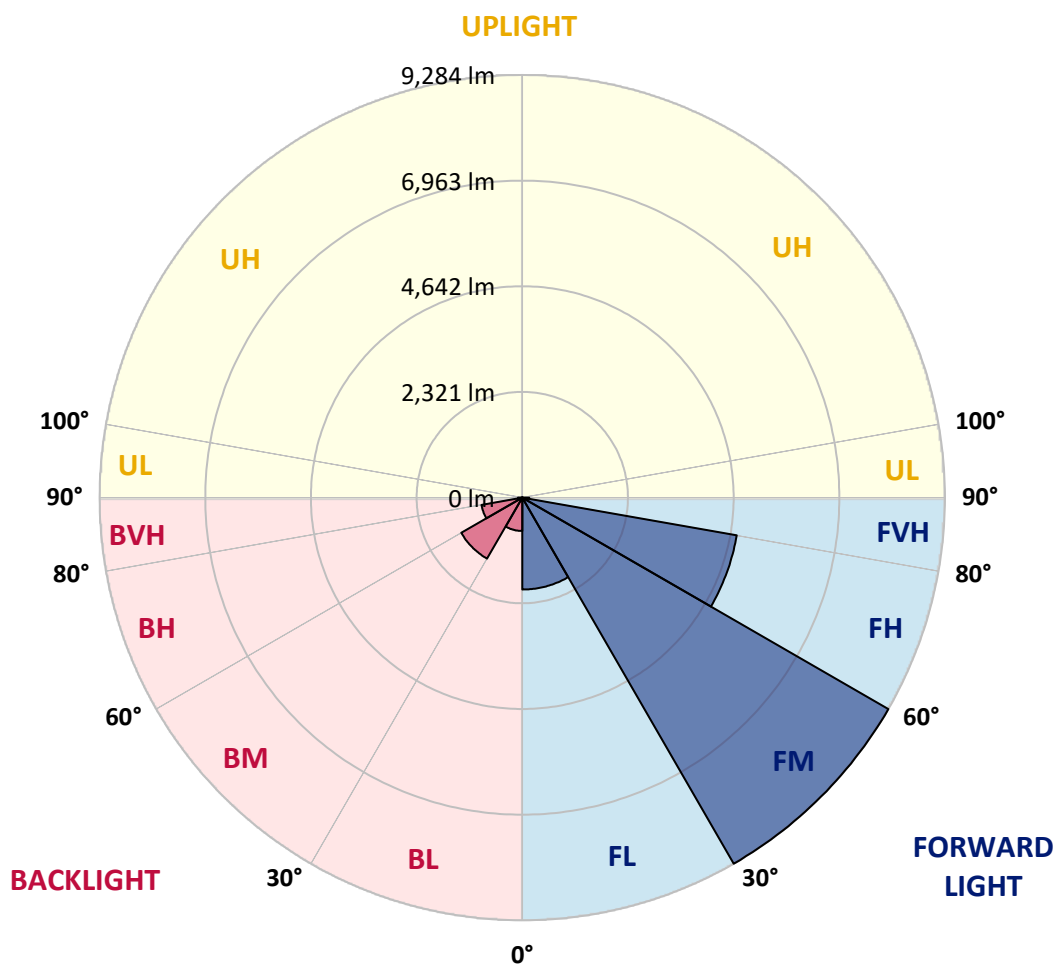
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2018.0	10.3			
FM	(30°-60°)	9283.6	47.6			
FH	(60°-80°)	4783.0	24.5			G2/5000
FVH	(80°-90°)	153.0	0.8			G2/225
BL	(0°-30°)	732.6	3.8	B2/1000		
BM	(30°-60°)	1547.2	7.9	B2/2500		
BH	(60°-80°)	909.9	4.7	B2/1000		G2/1000
BVH	(80°-90°)	91.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	2409.6	2393.7	2376.8	2330.2	2280.5	2224.3	2143.9	2066.6	1963.9	1960.7	1884.5
5°	3077.7	3067.1	2991.9	2948.5	2833.1	2679.6	2549.4	2347.1	2159.8	2137.5	1989.3
7.5°	3691.7	3650.4	3621.8	3543.5	3429.1	3232.2	2980.3	2707.1	2393.7	2364.1	2118.5
10°	4154.4	4150.1	4135.3	4067.5	3981.8	3785.9	3506.4	3114.7	2690.2	2631.9	2275.2
12.5°	4500.6	4503.7	4501.6	4500.6	4439.1	4272.9	3970.1	3557.2	2989.8	2948.5	2456.2
15°	4728.2	4759.9	4772.6	4825.6	4830.9	4719.7	4459.3	3985.0	3327.5	3266.1	2651.0
17.5°	4878.5	4894.4	4953.7	5043.7	5116.7	5096.6	4864.7	4380.9	3672.6	3570.0	2853.2
20°	5022.5	5050.0	5095.5	5218.4	5347.5	5406.8	5243.8	4786.4	4014.6	3949.0	3076.6
22.5°	5322.1	5361.3	5377.2	5439.6	5549.7	5654.5	5580.4	5174.9	4389.4	4300.5	3313.7
25°	5829.2	5870.5	5826.1	5811.2	5847.2	5899.1	5883.2	5541.3	4743.0	4616.0	3538.2
27.5°	6489.9	6495.2	6408.3	6325.8	6236.8	6210.4	6161.7	5866.3	5050.0	4944.2	3763.7
30°	7199.2	7173.8	7029.8	6880.5	6730.2	6582.0	6442.2	6179.7	5392.0	5270.2	3985.0
32.5°	7857.7	7843.9	7684.1	7452.2	7198.1	7058.4	6775.7	6496.2	5758.3	5640.8	4212.6
35°	8351.1	8371.2	8195.4	7942.4	7665.0	7541.2	7184.4	6828.6	6137.3	6009.2	4460.3
37.5°	8701.5	8690.9	8535.3	8316.1	8072.6	7964.6	7661.8	7191.8	6544.9	6422.1	4731.4
40°	8826.4	8820.1	8704.7	8544.8	8390.2	8352.1	8161.6	7583.5	7011.8	6867.8	5057.4
42.5°	8747.0	8760.8	8684.6	8641.2	8612.6	8640.1	8658.1	8097.0	7521.0	7388.7	5411.0
45°	8503.5	8496.1	8485.5	8556.5	8717.4	8898.4	9149.3	8581.9	8074.7	7968.9	5885.3
47.5°	8068.4	8121.3	8147.8	8343.7	8695.1	9123.9	9714.7	9231.9	8878.3	8786.2	6608.4
50°	7459.6	7502.0	7658.7	8007.0	8531.0	9208.6	10267.3	10294.8	10218.6	10046.1	7394.0
52.5°	6508.9	6574.6	6897.5	7535.9	8194.4	9173.7	10601.9	11206.4	11307.0	11177.8	8167.9
55°	5444.9	5537.0	5877.9	6715.4	7730.7	8983.1	10832.7	11734.7	12135.9	12016.3	8913.2
57.5°	4403.2	4500.6	4851.0	5662.0	6921.8	8561.7	10984.1	12323.3	13264.5	13108.9	9840.7
60°	3300.0	3401.6	3702.3	4537.6	5769.9	7738.1	10881.4	12833.6	14392.0	14325.3	10769.1
62.5°	2129.1	2241.3	2502.8	3194.1	4434.9	6612.7	10331.9	13115.2	15368.2	15287.7	11446.7
65°	1296.9	1309.6	1453.6	1983.0	3035.3	5119.9	9075.2	12741.5	15882.7	15858.3	11653.2
67.5°	838.5	858.6	924.2	1187.9	1819.9	3556.2	7256.4	11508.1	15582.0	15573.6	11226.5
70°	708.3	714.6	744.3	801.4	1057.6	2156.6	5095.5	9542.1	14439.7	14439.7	10200.6
72.5°	633.1	641.6	652.2	670.2	754.9	1221.7	3040.6	7427.9	12467.3	12549.9	8682.4
75°	574.9	572.8	579.1	582.3	643.7	798.3	1572.2	5493.6	9644.8	9479.6	6287.6
77.5°	492.3	495.5	492.3	506.1	568.5	607.7	798.3	3686.4	5845.1	5631.3	3156.0
80°	404.4	409.7	415.0	423.5	485.9	461.6	479.6	1680.2	2161.9	2116.4	975.1
82.5°	303.8	311.3	319.7	339.8	382.2	304.9	302.8	717.8	780.3	714.6	358.9
85°	122.8	145.0	219.2	239.3	240.3	167.3	186.3	299.6	318.7	311.3	140.8
87.5°	28.6	33.9	70.9	106.9	98.5	62.5	68.8	97.4	111.2	102.7	47.6
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°	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6	1813.6
2.5°	1849.6	1812.5	1749.0	1700.3	1665.3	1634.6	1615.6	1603.9	1599.7	1598.6	1599.7
5°	1912.0	1846.4	1745.8	1682.3	1647.3	1627.2	1615.6	1614.5	1615.6	1616.6	1613.5
7.5°	1997.8	1903.6	1772.3	1713.0	1686.5	1671.7	1666.4	1664.3	1665.3	1664.3	1664.3
10°	2112.1	1983.0	1824.1	1762.7	1740.5	1723.6	1715.1	1709.8	1705.6	1701.3	1699.2
12.5°	2238.1	2070.8	1880.3	1821.0	1789.2	1762.7	1743.7	1729.9	1720.4	1710.9	1708.7
15°	2378.9	2164.0	1942.7	1860.1	1814.6	1775.4	1742.6	1720.4	1703.5	1689.7	1688.6
17.5°	2513.4	2251.9	1985.1	1878.1	1811.4	1756.4	1713.0	1682.3	1661.1	1643.1	1641.0
20°	2657.3	2335.5	2004.1	1866.5	1779.7	1713.0	1655.8	1618.8	1594.4	1574.3	1571.1
22.5°	2802.4	2406.4	2002.0	1829.4	1724.6	1646.3	1585.9	1546.8	1518.2	1498.1	1490.7
25°	2941.1	2463.6	1975.5	1770.2	1648.4	1566.9	1505.5	1469.5	1444.1	1419.7	1419.7
27.5°	3066.0	2497.5	1925.8	1698.2	1570.1	1484.3	1435.6	1402.8	1379.5	1363.6	1354.1
30°	3188.8	2513.4	1858.0	1607.1	1487.5	1414.4	1375.3	1356.2	1335.0	1317.0	1314.9
32.5°	3298.9	2510.2	1773.3	1518.2	1409.1	1357.3	1341.4	1326.6	1304.3	1278.9	1272.6
35°	3405.9	2489.0	1672.8	1420.8	1343.5	1323.4	1327.6	1306.4	1266.2	1234.5	1229.2
37.5°	3522.3	2450.9	1562.6	1341.4	1288.4	1307.5	1318.1	1271.5	1205.9	1156.1	1144.5
40°	3656.8	2407.5	1448.3	1262.0	1245.0	1292.7	1292.7	1206.9	1116.9	1086.2	1077.8
42.5°	3814.5	2371.5	1353.0	1195.3	1209.0	1256.7	1251.4	1121.2	1084.1	1068.2	1064.0
45°	4064.4	2358.8	1254.6	1137.0	1179.4	1214.3	1170.9	1091.5	1070.4	1057.6	1053.4
47.5°	4459.3	2373.6	1167.8	1093.6	1145.5	1172.0	1080.9	1071.4	1056.6	1038.6	1036.5
50°	4825.6	2359.9	1106.3	1069.3	1115.9	1121.2	1043.9	1047.1	1038.6	1018.5	1014.2
52.5°	5125.2	2316.4	1067.2	1056.6	1090.5	1032.2	1008.9	1020.6	1017.4	992.0	987.8
55°	5454.4	2290.0	1048.1	1056.6	1073.5	955.0	976.1	993.1	988.8	970.8	969.8
57.5°	5853.6	2295.3	1034.4	1059.8	1056.6	915.8	943.3	963.4	962.4	957.1	957.1
60°	6262.2	2297.4	1013.2	1058.7	1036.5	885.1	909.4	938.0	940.1	943.3	943.3
62.5°	6397.8	2205.3	971.9	1039.6	992.0	855.4	877.7	916.8	914.7	923.2	924.2
65°	6144.7	1950.1	910.5	996.2	934.8	834.3	853.3	889.3	877.7	899.9	904.1
67.5°	5593.1	1613.5	815.2	917.9	871.3	812.0	837.4	851.2	830.0	873.4	874.5
70°	4834.0	1259.9	694.5	806.7	799.3	788.7	824.7	803.6	773.9	826.8	816.3
72.5°	4042.1	962.4	554.8	659.6	703.0	753.8	802.5	742.2	700.9	716.7	697.7
75°	3036.4	711.4	445.7	516.6	585.5	704.0	782.4	668.0	604.5	589.7	585.5
77.5°	1547.8	464.8	333.5	386.4	439.4	636.3	754.9	581.2	500.8	477.5	466.9
80°	552.6	289.0	235.0	266.8	296.4	547.4	659.6	480.7	388.5	384.3	388.5
82.5°	256.2	186.3	157.7	174.7	175.7	365.3	502.9	358.9	295.4	448.9	379.0
85°	110.1	93.2	88.9	86.8	80.5	163.0	282.7	192.7	300.7	134.5	123.9
87.5°	32.8	37.1	32.8	24.4	18.0	18.0	28.6	10.6	7.4	5.3	5.3
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)