

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: P452646

Luminaire Tested: **GALN-SA3C-760-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452646
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-SA3C-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21389 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

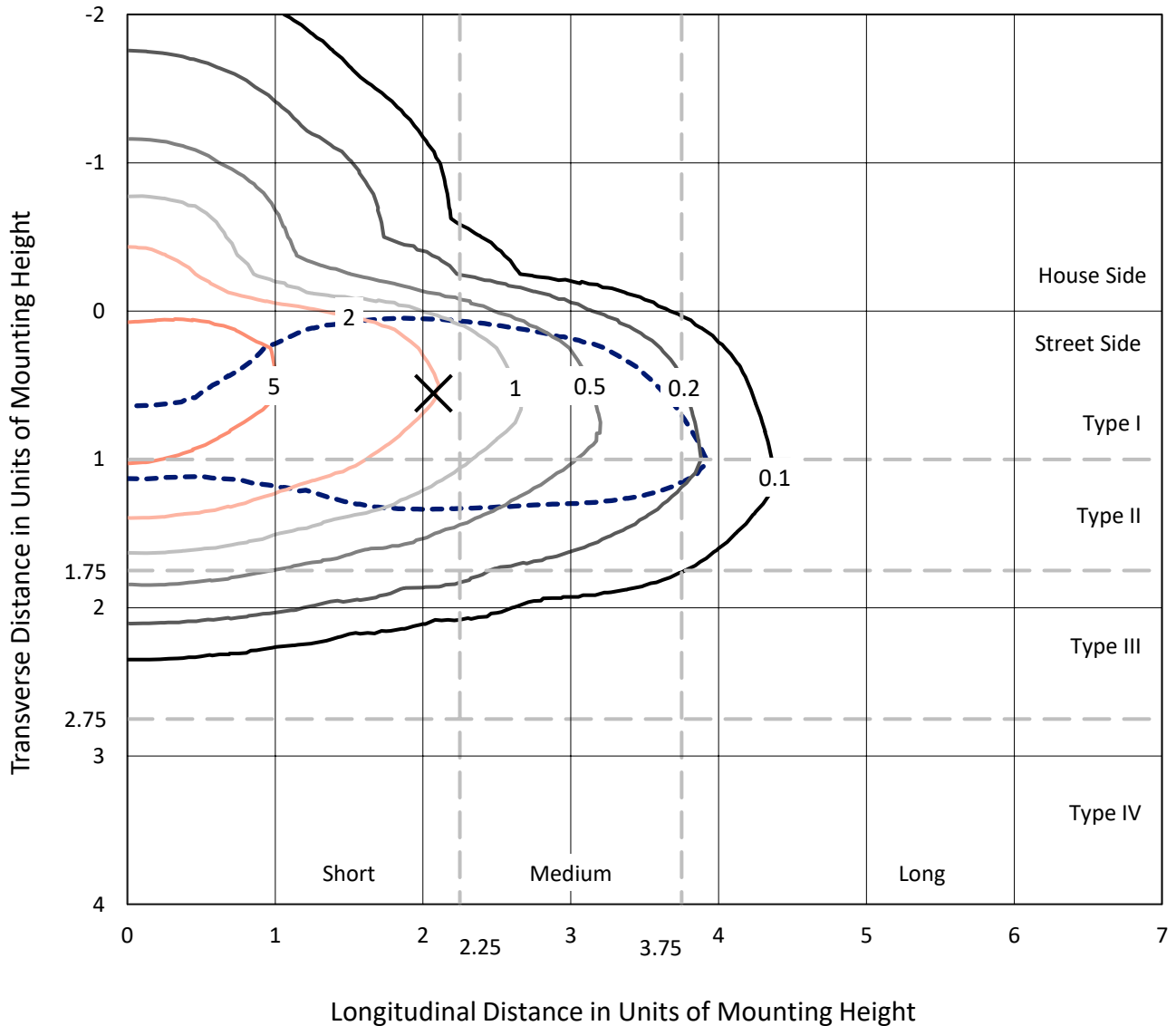
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

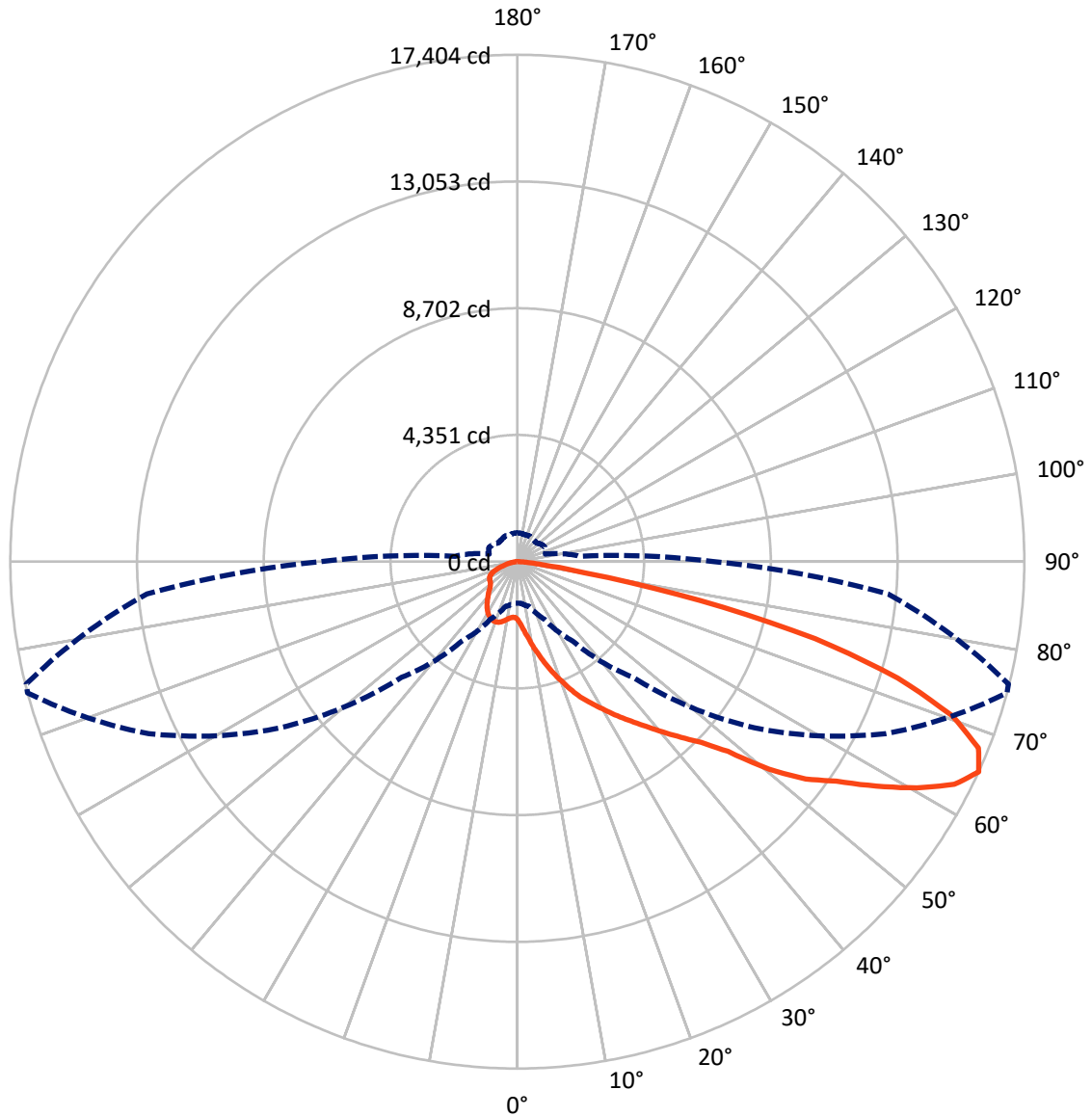
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	3595.8	0.0	3595.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	17793.2	0.0	17793.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	21389.0	0.0	21389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	1.1
10°-20°	945.7	4.4
20°-30°	1826.8	8.5
30°-40°	2967.3	13.9
40°-50°	4081.8	19.1
50°-60°	4819.3	22.5
60°-70°	4222.5	19.7
70°-80°	2015.8	9.4
80°-90°	268.2	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°	21389.0	100.0
0°-180°	21389.0	100.0

Coefficient of Utilization



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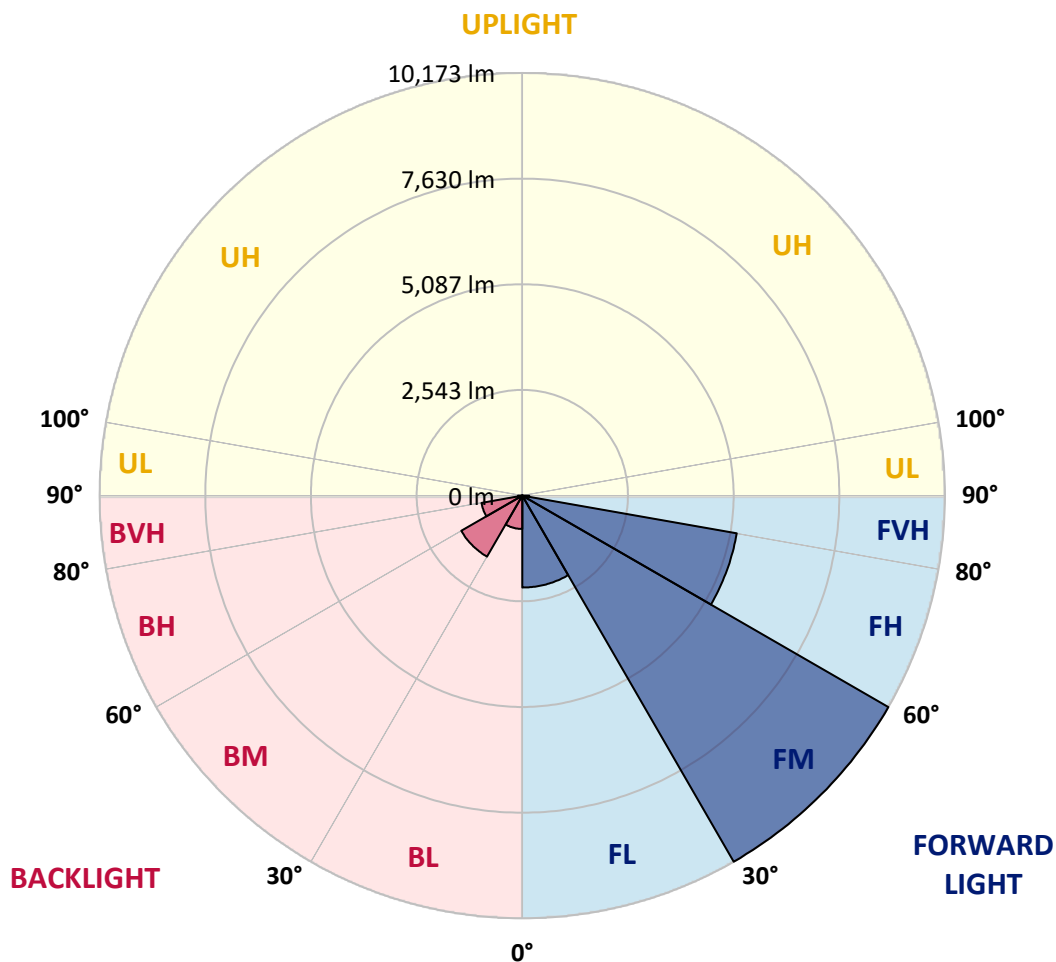
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2211.3	10.3			
FM	(30°-60°)	10173.1	47.6			
FH	(60°-80°)	5241.3	24.5			G3/7500
FVH	(80°-90°)	167.6	0.8			G2/225
BL	(0°-30°)	802.7	3.8	B2/1000		
BM	(30°-60°)	1695.4	7.9	B2/2500		
BH	(60°-80°)	997.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	100.6	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3
2.5°	2640.5	2623.1	2604.5	2553.5	2498.9	2437.4	2349.3	2264.6	2152.0	2148.6	2065.0
5°	3372.5	3360.9	3278.5	3231.0	3104.5	2936.3	2793.6	2572.0	2366.7	2342.3	2179.9
7.5°	4045.4	4000.1	3968.8	3883.0	3757.7	3541.9	3265.8	2966.5	2623.1	2590.6	2321.4
10°	4552.4	4547.7	4531.5	4457.2	4363.3	4148.6	3842.4	3413.1	2947.9	2884.1	2493.1
12.5°	4931.7	4935.2	4932.9	4931.7	4864.4	4682.3	4350.5	3898.0	3276.2	3231.0	2691.5
15°	5181.2	5216.0	5229.9	5287.9	5293.7	5171.9	4886.5	4366.7	3646.3	3579.0	2905.0
17.5°	5345.9	5363.3	5428.3	5526.9	5606.9	5584.9	5330.8	4800.6	4024.5	3912.0	3126.6
20°	5503.7	5533.8	5583.7	5718.3	5859.8	5924.8	5746.1	5245.0	4399.2	4327.3	3371.3
22.5°	5832.0	5874.9	5892.3	5960.8	6081.4	6196.3	6115.1	5670.7	4809.9	4712.5	3631.2
25°	6387.7	6432.9	6384.2	6368.0	6407.4	6464.3	6446.9	6072.1	5197.4	5058.2	3877.2
27.5°	7111.6	7117.4	7022.3	6931.8	6834.3	6805.3	6752.0	6428.3	5533.8	5417.8	4124.3
30°	7888.9	7861.1	7703.3	7539.7	7375.0	7212.5	7059.4	6771.7	5908.6	5775.1	4366.7
32.5°	8610.5	8595.4	8420.2	8166.2	7887.7	7734.6	7424.9	7118.6	6310.0	6181.2	4616.2
35°	9151.1	9173.2	8980.6	8703.3	8399.4	8263.6	7872.7	7482.9	6725.3	6584.9	4887.6
37.5°	9535.1	9523.5	9353.0	9112.8	8846.0	8727.7	8395.9	7880.8	7171.9	7037.4	5184.6
40°	9672.0	9665.1	9538.6	9363.4	9194.1	9152.3	8943.5	8310.0	7683.6	7525.8	5542.0
42.5°	9585.0	9600.1	9516.6	9469.0	9437.7	9467.8	9487.6	8872.7	8241.6	8096.6	5929.4
45°	9318.2	9310.1	9298.5	9376.2	9552.5	9750.9	10025.9	9404.0	8848.3	8732.3	6449.2
47.5°	8841.4	8899.4	8928.4	9143.0	9528.2	9998.0	10645.4	10116.4	9728.9	9627.9	7241.6
50°	8174.3	8220.7	8392.4	8774.1	9348.4	10090.8	11251.0	11281.1	11197.6	11008.5	8102.4
52.5°	7132.5	7204.4	7558.3	8257.8	8979.4	10052.6	11617.6	12280.0	12390.2	12248.7	8950.4
55°	5966.6	6067.5	6441.1	7358.7	8471.3	9843.7	11870.5	12858.9	13298.6	13167.5	9767.2
57.5°	4825.0	4931.7	5315.7	6204.4	7585.0	9382.0	12036.4	13504.0	14535.3	14364.8	10783.4
60°	3616.1	3727.5	4057.0	4972.3	6322.7	8479.4	11923.8	14063.1	15770.9	15697.8	11800.9
62.5°	2333.0	2456.0	2742.6	3500.1	4859.8	7246.2	11321.7	14371.7	16840.5	16752.3	12543.4
65°	1421.2	1435.1	1592.9	2172.9	3326.1	5610.4	9944.7	13962.2	17404.3	17377.6	12769.6
67.5°	918.8	940.9	1012.8	1301.7	1994.3	3896.9	7951.6	12610.6	17074.8	17065.6	12302.1
70°	776.1	783.1	815.6	878.2	1159.0	2363.2	5583.7	10456.3	15823.1	15823.1	11177.9
72.5°	693.8	703.0	714.6	734.4	827.2	1338.8	3331.9	8139.5	13661.7	13752.2	9514.3
75°	630.0	627.6	634.6	638.1	705.4	874.7	1722.8	6019.9	10568.8	10387.8	6890.0
77.5°	539.5	542.9	539.5	554.5	623.0	665.9	874.7	4039.6	6405.1	6170.7	3458.4
80°	443.2	449.0	454.8	464.1	532.5	505.8	525.5	1841.1	2369.0	2319.1	1068.5
82.5°	333.0	341.1	350.4	372.4	418.8	334.1	331.8	786.6	855.0	783.1	393.3
85°	134.6	158.9	240.1	262.2	263.4	183.3	204.2	328.3	349.2	341.1	154.3
87.5°	31.3	37.1	77.7	117.2	107.9	68.4	75.4	106.7	121.8	112.5	52.2
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°	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3	1987.3
2.5°	2026.8	1986.1	1916.5	1863.2	1824.9	1791.2	1770.4	1757.6	1753.0	1751.8	1753.0
5°	2095.2	2023.3	1913.1	1843.5	1805.2	1783.1	1770.4	1769.2	1770.4	1771.5	1768.0
7.5°	2189.2	2085.9	1942.1	1877.1	1848.1	1831.9	1826.0	1823.7	1824.9	1823.7	1823.7
10°	2314.5	2172.9	1998.9	1931.6	1907.3	1888.7	1879.4	1873.6	1869.0	1864.3	1862.0
12.5°	2452.5	2269.2	2060.4	1995.4	1960.6	1931.6	1910.7	1895.7	1885.2	1874.8	1872.5
15°	2606.8	2371.3	2128.8	2038.4	1988.5	1945.5	1909.6	1885.2	1866.7	1851.6	1850.4
17.5°	2754.2	2467.6	2175.2	2058.1	1985.0	1924.7	1877.1	1843.5	1820.2	1800.5	1798.2
20°	2911.9	2559.3	2196.1	2045.3	1950.2	1877.1	1814.4	1773.8	1747.2	1725.1	1721.6
22.5°	3070.9	2637.0	2193.8	2004.7	1889.9	1804.0	1737.9	1695.0	1663.6	1641.6	1633.5
25°	3222.9	2699.6	2164.8	1939.7	1806.3	1717.0	1649.7	1610.3	1582.4	1555.7	1555.7
27.5°	3359.7	2736.8	2110.3	1860.9	1720.5	1626.5	1573.1	1537.2	1511.7	1494.3	1483.8
30°	3494.3	2754.2	2036.0	1761.1	1630.0	1549.9	1507.0	1486.1	1462.9	1443.2	1440.9
32.5°	3615.0	2750.7	1943.2	1663.6	1544.1	1487.3	1469.9	1453.6	1429.3	1401.4	1394.5
35°	3732.1	2727.5	1833.0	1556.9	1472.2	1450.2	1454.8	1431.6	1387.5	1352.7	1346.9
37.5°	3859.8	2685.7	1712.4	1469.9	1411.9	1432.8	1444.4	1393.3	1321.4	1266.9	1254.1
40°	4007.1	2638.1	1587.1	1382.9	1364.3	1416.5	1416.5	1322.6	1223.9	1190.3	1181.0
42.5°	4180.0	2598.7	1482.7	1309.8	1324.9	1377.1	1371.3	1228.6	1188.0	1170.6	1165.9
45°	4453.8	2584.8	1374.8	1246.0	1292.4	1330.7	1283.1	1196.1	1172.9	1159.0	1154.3
47.5°	4886.5	2601.0	1279.6	1198.4	1255.3	1284.3	1184.5	1174.1	1157.8	1138.1	1135.8
50°	5287.9	2585.9	1212.3	1171.7	1222.8	1228.6	1143.9	1147.4	1138.1	1116.0	1111.4
52.5°	5616.2	2538.4	1169.4	1157.8	1194.9	1131.1	1105.6	1118.4	1114.9	1087.0	1082.4
55°	5977.0	2509.4	1148.5	1157.8	1176.4	1046.4	1069.6	1088.2	1083.6	1063.8	1062.7
57.5°	6414.4	2515.2	1133.5	1161.3	1157.8	1003.5	1033.7	1055.7	1054.6	1048.8	1048.8
60°	6862.2	2517.5	1110.2	1160.1	1135.8	969.9	996.6	1027.9	1030.2	1033.7	1033.7
62.5°	7010.7	2416.6	1065.0	1139.3	1087.0	937.4	961.8	1004.7	1002.4	1011.6	1012.8
65°	6733.4	2137.0	997.7	1091.7	1024.4	914.2	935.1	974.5	961.8	986.1	990.8
67.5°	6129.0	1768.0	893.3	1005.8	954.8	889.8	917.7	932.7	909.5	957.1	958.3
70°	5297.2	1380.6	761.0	884.0	875.9	864.3	903.7	880.5	848.1	906.1	894.5
72.5°	4429.4	1054.6	607.9	722.8	770.3	826.0	879.4	813.3	768.0	785.4	764.5
75°	3327.3	779.6	488.4	566.1	641.6	771.5	857.3	732.0	662.4	646.2	641.6
77.5°	1696.1	509.3	365.4	423.4	481.5	697.2	827.2	636.9	548.7	523.2	511.6
80°	605.6	316.7	257.5	292.4	324.8	599.8	722.8	526.7	425.8	421.1	425.8
82.5°	280.8	204.2	172.9	191.4	192.6	400.2	551.1	393.3	323.7	491.9	415.3
85°	120.7	102.1	97.5	95.1	88.2	178.7	309.8	211.1	329.5	147.3	135.7
87.5°	36.0	40.6	36.0	26.7	19.7	19.7	31.3	11.6	8.1	5.8	5.8
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)