

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: P382986

Luminaire Tested: **GLEON-SA3B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3B-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11540.9 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

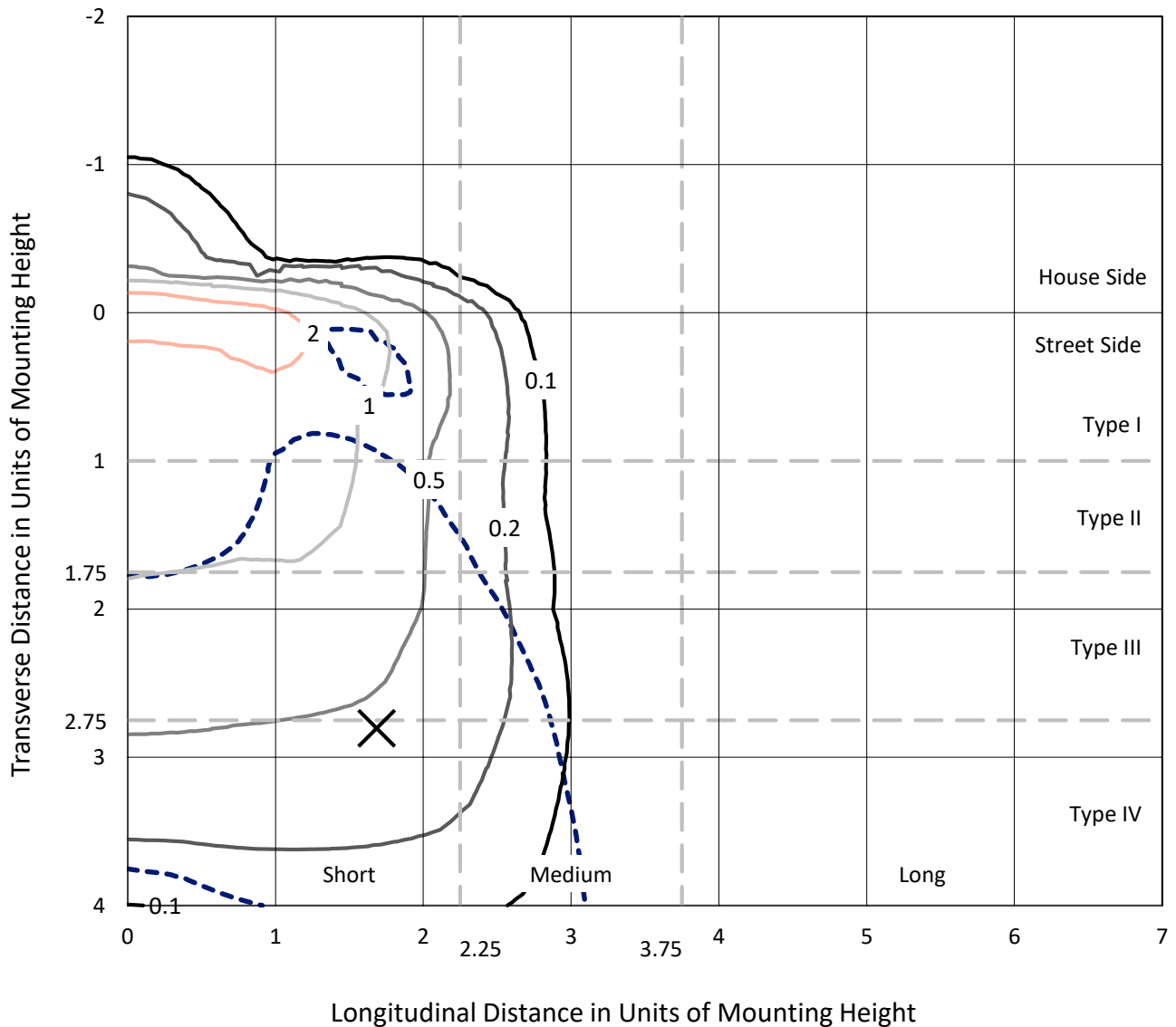
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

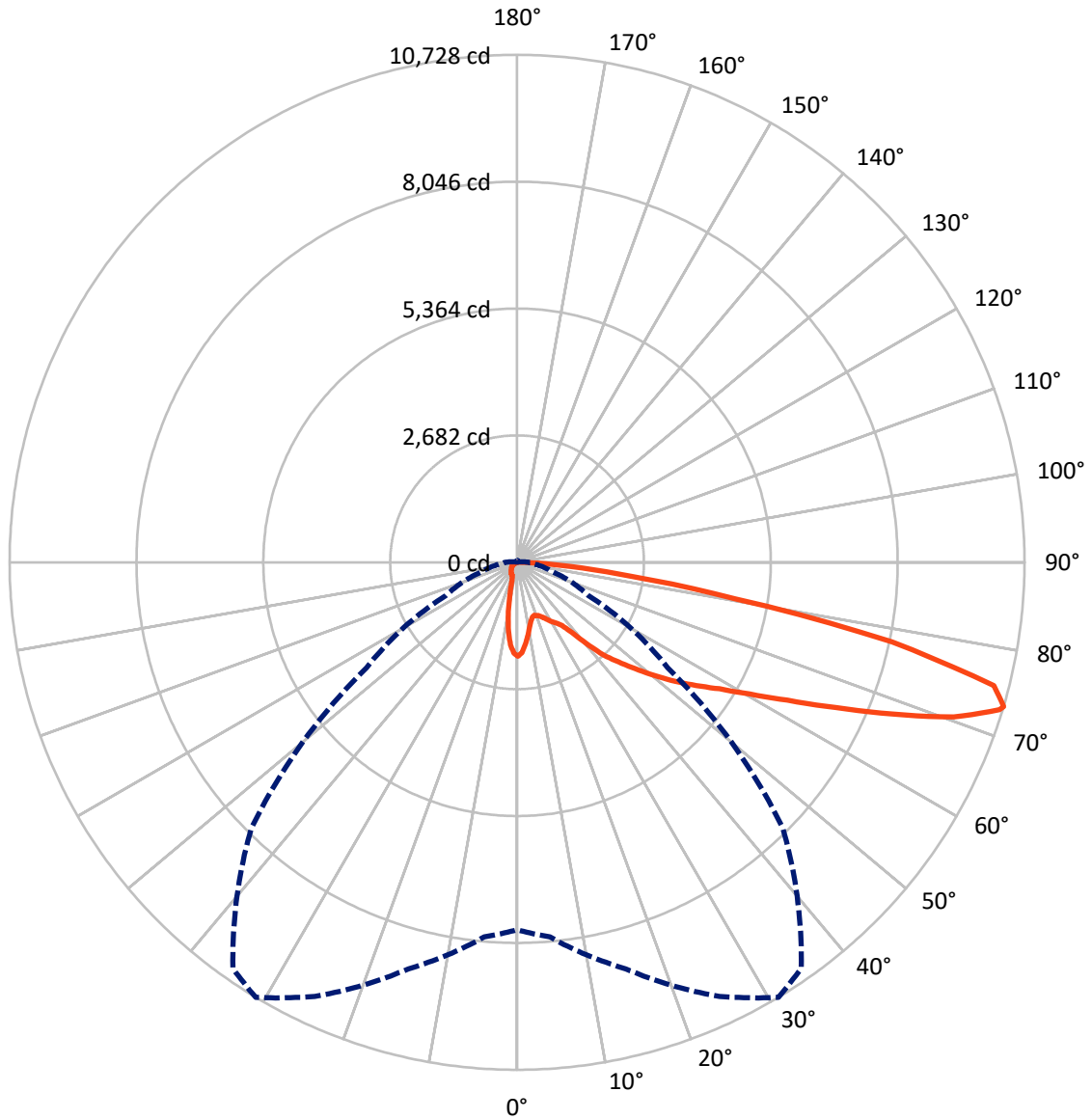
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1052.0	0.0	1052.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	10488.9	0.0	10488.9
	% Fixture	90.9	0.0	90.9
Total	Lumens	11540.9	0.0	11540.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.6	1.4
10°-20°	357.5	3.1
20°-30°	535.6	4.6
30°-40°	852.1	7.4
40°-50°	1521.7	13.2
50°-60°	2361.2	20.5
60°-70°	3138.9	27.2
70°-80°	2361.1	20.5
80°-90°	248.1	2.1
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°	11540.9	100.0
0°-180°	11540.9	100.0

Coefficient of Utilization

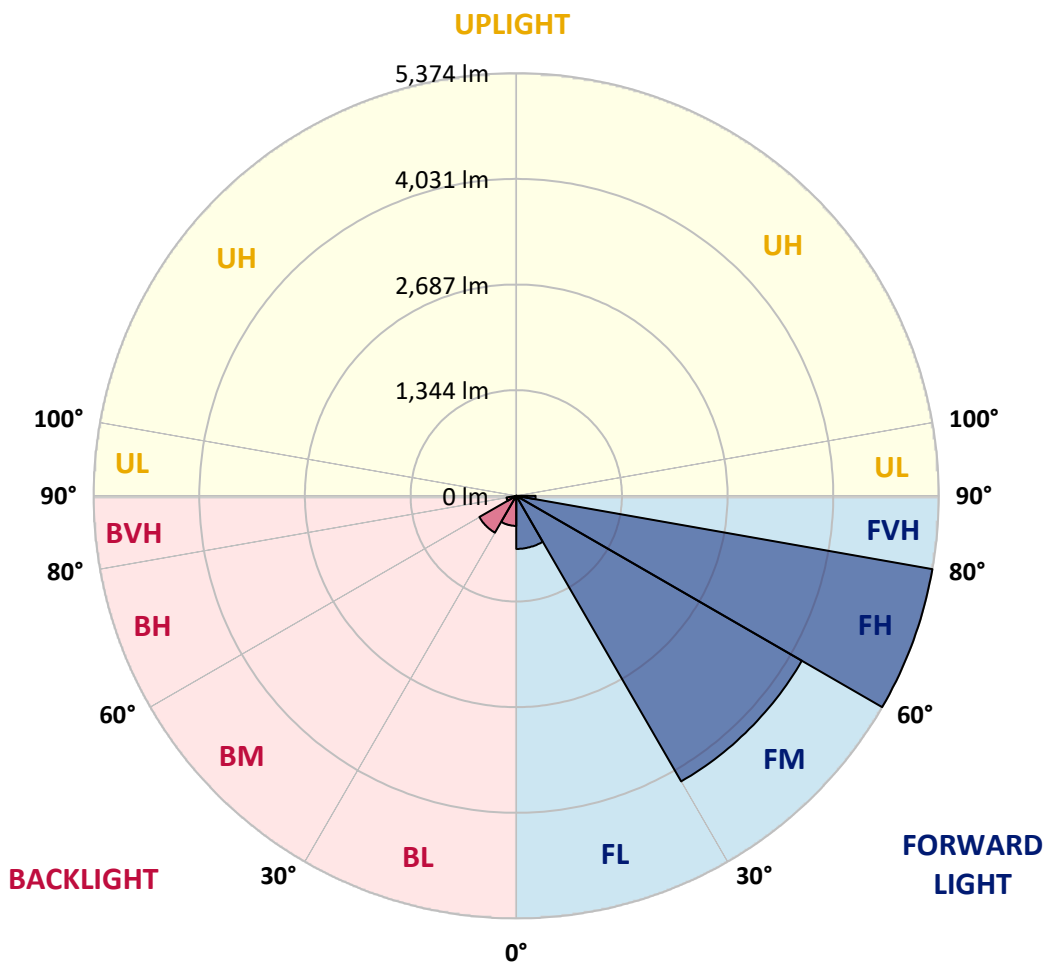


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	675.2	5.9			
FM (30°-60°)	4193.6	36.3			
FH (60°-80°)	5374.2	46.6			G3/7500
FVH (80°-90°)	246.0	2.1			G3/500
BL (0°-30°)	382.6	3.3	B1/500		
BM (30°-60°)	541.5	4.7	B1/1000		
BH (60°-80°)	125.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7
2.5°	1881.7	1889.6	1898.1	1899.8	1914.0	1914.5	1934.8	1950.1	1965.3	1980.0	1985.0
5°	1688.6	1701.6	1716.8	1732.0	1762.0	1773.9	1823.6	1874.4	1923.0	1969.3	1991.8
7.5°	1482.5	1497.2	1518.6	1556.4	1589.8	1612.9	1691.4	1781.8	1872.1	1957.4	2006.6
10°	1294.4	1308.0	1330.5	1370.7	1422.0	1453.7	1559.2	1684.6	1817.4	1946.7	2028.5
12.5°	1174.7	1182.0	1194.4	1237.4	1283.7	1319.3	1443.5	1598.8	1772.2	1946.1	2064.1
15°	1152.6	1154.9	1144.8	1164.0	1200.1	1234.5	1360.4	1529.3	1737.7	1955.1	2110.4
17.5°	1187.6	1186.5	1152.6	1150.4	1179.2	1207.4	1319.8	1481.3	1713.4	1976.0	2170.3
20°	1240.7	1236.8	1178.0	1167.3	1197.8	1224.3	1317.0	1463.3	1704.4	2011.0	2243.2
22.5°	1311.3	1304.5	1212.5	1201.2	1233.9	1261.6	1352.0	1480.8	1712.3	2058.0	2327.8
25°	1398.9	1388.8	1271.8	1259.4	1292.7	1320.4	1414.6	1531.0	1736.0	2115.0	2435.2
27.5°	1497.7	1483.0	1366.7	1334.5	1372.4	1401.1	1498.3	1607.9	1773.3	2175.4	2566.8
30°	1590.9	1571.7	1466.6	1413.5	1459.8	1492.1	1588.7	1699.3	1833.2	2268.6	2746.9
32.5°	1684.6	1663.2	1555.9	1492.6	1534.4	1569.5	1681.8	1825.3	1945.5	2410.9	2986.4
35°	1900.4	1877.8	1746.2	1641.8	1641.1	1660.9	1812.2	1997.5	2094.1	2609.1	3272.2
37.5°	2263.5	2250.5	2125.1	1926.9	1873.8	1851.8	1990.2	2203.1	2307.5	2881.9	3594.6
40°	2661.1	2649.8	2509.1	2329.6	2248.8	2194.6	2245.4	2489.4	2609.1	3215.1	3923.9
42.5°	3110.1	3056.4	2805.6	2752.0	2679.7	2638.5	2592.8	2842.3	2979.6	3577.7	4250.3
45°	3517.8	3427.4	3102.1	3020.8	3004.4	3014.6	3040.0	3316.8	3396.3	4008.5	4575.6
47.5°	3760.7	3689.5	3439.8	3362.0	3357.4	3424.6	3616.6	3852.7	3811.4	4384.1	4861.9
50°	3991.6	3927.2	3719.9	3739.1	3760.1	3851.6	4271.1	4403.9	4190.4	4724.6	5124.5
52.5°	4178.5	4080.3	3971.8	4079.7	4182.5	4329.9	4946.6	4898.6	4459.2	4995.7	5349.2
55°	4286.4	4241.8	4294.3	4402.8	4595.9	4835.4	5584.2	5310.3	4655.8	5243.1	5498.9
57.5°	4681.8	4594.2	4698.6	4792.4	5044.3	5379.2	6130.3	5617.0	4797.5	5396.2	5533.4
60°	5160.0	5089.5	5151.0	5306.9	5646.9	6040.5	6640.8	5867.2	4871.5	5494.4	5444.2
62.5°	5921.4	5828.1	5789.8	5964.2	6414.9	6844.7	7028.2	6040.5	4855.1	5451.0	5138.0
65°	6941.2	6844.7	6673.0	6831.1	7404.4	7707.6	7461.4	6077.2	4742.1	5099.1	4364.4
67.5°	7986.1	7916.0	7769.2	8035.7	8553.1	8650.7	7919.5	5988.0	4378.5	4134.5	3083.5
70°	8676.2	8646.3	8741.6	9331.3	9792.7	9764.5	8339.6	5508.5	3412.7	2542.5	1525.4
72.5°	8178.6	8322.1	9026.9	10095.9	10659.5	10429.1	8123.8	4230.0	1950.7	978.1	441.1
73°	7766.4	7949.9	8898.7	10124.7	10727.9	10475.4	7942.6	3882.6	1662.6	772.0	334.3
75°	5402.9	5628.2	7367.1	9429.6	10408.3	9980.7	6620.5	2376.5	770.3	342.3	135.0
77.5°	2623.2	2789.8	4056.5	6813.1	8094.5	7798.0	4121.5	885.5	347.8	214.1	62.1
80°	979.2	1088.8	1760.9	3467.5	4677.8	4800.4	1812.8	334.9	231.6	172.2	31.6
82.5°	256.4	285.8	649.5	1546.3	2397.3	2509.1	571.5	168.9	169.4	141.8	19.2
85°	81.9	93.7	202.7	694.1	1129.5	991.7	149.0	81.9	123.2	105.6	10.7
87.5°	10.2	12.9	64.4	163.2	249.1	138.3	23.2	24.3	52.5	58.7	6.2
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°	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7	1985.7
2.5°	1990.2	1987.4	1987.9	1973.2	1963.6	1944.4	1924.7	1915.6	1906.0	1902.0	1906.0
5°	2000.3	1995.3	1980.6	1935.4	1887.4	1825.3	1767.1	1723.0	1667.7	1652.5	1668.2
7.5°	2016.1	2006.0	1963.1	1871.0	1764.3	1645.7	1512.4	1415.2	1335.7	1284.2	1302.9
10°	2039.3	2020.1	1933.7	1777.2	1586.3	1376.3	1187.1	1039.7	935.2	892.3	890.6
12.5°	2078.3	2042.1	1897.6	1655.3	1368.9	1088.8	840.9	681.1	596.4	541.6	540.5
15°	2121.2	2068.1	1851.8	1509.0	1115.9	779.9	541.6	420.1	365.4	347.8	345.6
17.5°	2173.7	2098.0	1792.5	1328.9	851.1	516.7	353.5	318.5	316.3	314.6	314.6
20°	2239.8	2133.6	1716.3	1122.7	603.7	345.0	300.4	302.7	303.9	301.5	302.1
22.5°	2316.6	2169.8	1625.4	901.4	408.3	288.6	287.5	290.3	291.4	290.3	290.8
25°	2405.8	2211.6	1514.6	669.2	294.8	273.9	276.8	280.7	283.5	283.5	283.5
27.5°	2516.5	2262.4	1381.4	467.1	254.7	258.7	266.5	273.9	277.9	279.0	279.0
30°	2660.5	2325.6	1221.5	320.2	231.6	238.3	253.0	267.2	274.4	275.6	276.2
32.5°	2842.3	2396.8	1036.3	236.6	211.7	216.9	232.7	256.4	270.5	272.8	272.8
35°	3050.7	2479.2	837.0	206.2	197.7	199.4	211.7	238.8	263.7	270.0	270.5
37.5°	3279.0	2560.5	636.4	192.6	185.8	185.8	194.9	218.0	247.3	266.5	268.8
40°	3491.8	2609.7	446.1	181.8	175.0	175.0	183.0	199.9	227.6	256.4	262.6
42.5°	3688.4	2626.6	310.6	171.7	164.9	166.6	173.4	187.0	207.8	236.6	242.3
45°	3890.5	2623.8	226.5	159.9	154.7	159.9	164.9	175.0	190.3	206.7	207.8
47.5°	4043.0	2600.0	179.6	148.5	145.1	151.9	156.4	163.2	171.7	170.6	170.6
50°	4185.9	2542.5	144.6	133.3	135.5	143.5	145.7	147.9	148.5	137.8	136.7
52.5°	4294.3	2452.7	115.8	116.9	125.9	133.9	131.6	128.2	122.6	109.5	107.3
55°	4330.5	2279.9	90.9	96.6	111.8	121.9	113.6	106.2	95.5	84.7	82.4
57.5°	4265.0	2056.8	74.0	75.1	94.3	102.7	93.2	84.7	72.8	63.8	62.1
60°	4126.0	1808.9	61.0	56.5	72.8	80.2	74.0	65.5	54.8	48.0	47.4
62.5°	3850.5	1544.6	50.3	44.1	55.3	61.6	57.6	51.4	42.4	37.8	37.3
65°	3271.0	1235.7	40.6	35.6	42.9	48.0	44.6	40.1	33.3	29.9	29.3
67.5°	2283.2	835.2	33.3	29.3	33.9	37.8	35.0	32.8	26.5	26.0	26.5
70°	1101.3	402.7	27.7	23.8	26.5	29.3	28.2	26.5	25.4	29.3	33.9
72.5°	315.7	135.0	22.0	19.7	21.4	23.2	24.3	23.8	27.7	35.6	41.3
73°	242.9	109.0	20.9	18.6	20.3	22.5	23.8	23.2	28.2	36.1	41.3
75°	103.9	52.5	15.8	15.3	17.0	19.7	20.9	20.9	28.2	36.7	39.5
77.5°	46.9	28.2	10.2	11.8	14.7	15.8	17.5	17.5	22.5	28.2	28.2
80°	26.5	15.3	7.9	9.0	10.7	10.7	10.7	9.6	10.2	11.3	12.4
82.5°	17.0	10.2	6.2	7.4	6.8	5.7	4.5	4.5	3.9	4.5	5.7
85°	9.6	5.7	5.7	4.5	2.8	2.2	2.8	2.2	0.6	0.0	0.6
87.5°	5.7	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)