

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: P322030

Luminaire Tested: **GLEON-SA6A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14577 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

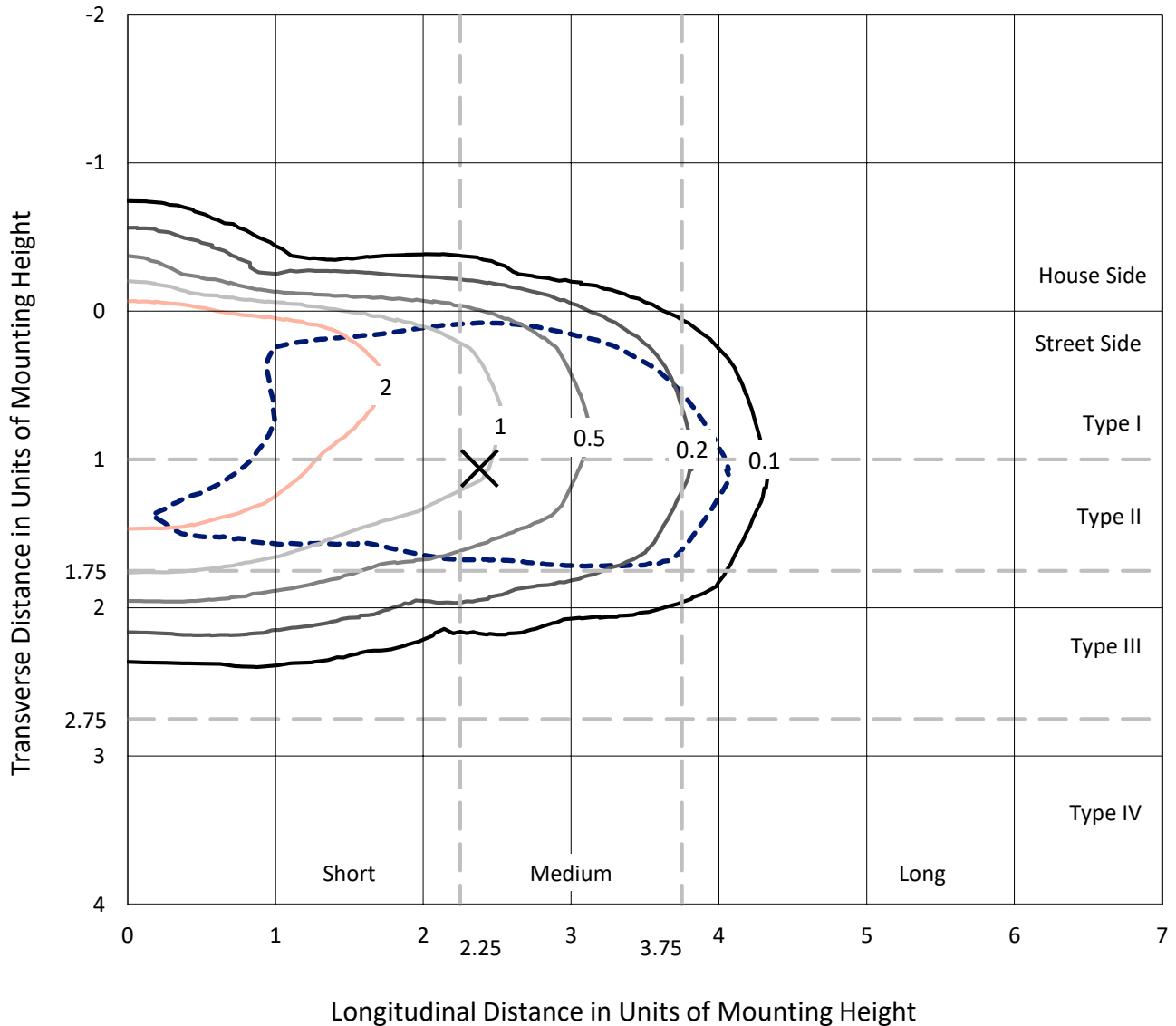
Input Watts (W): 193
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

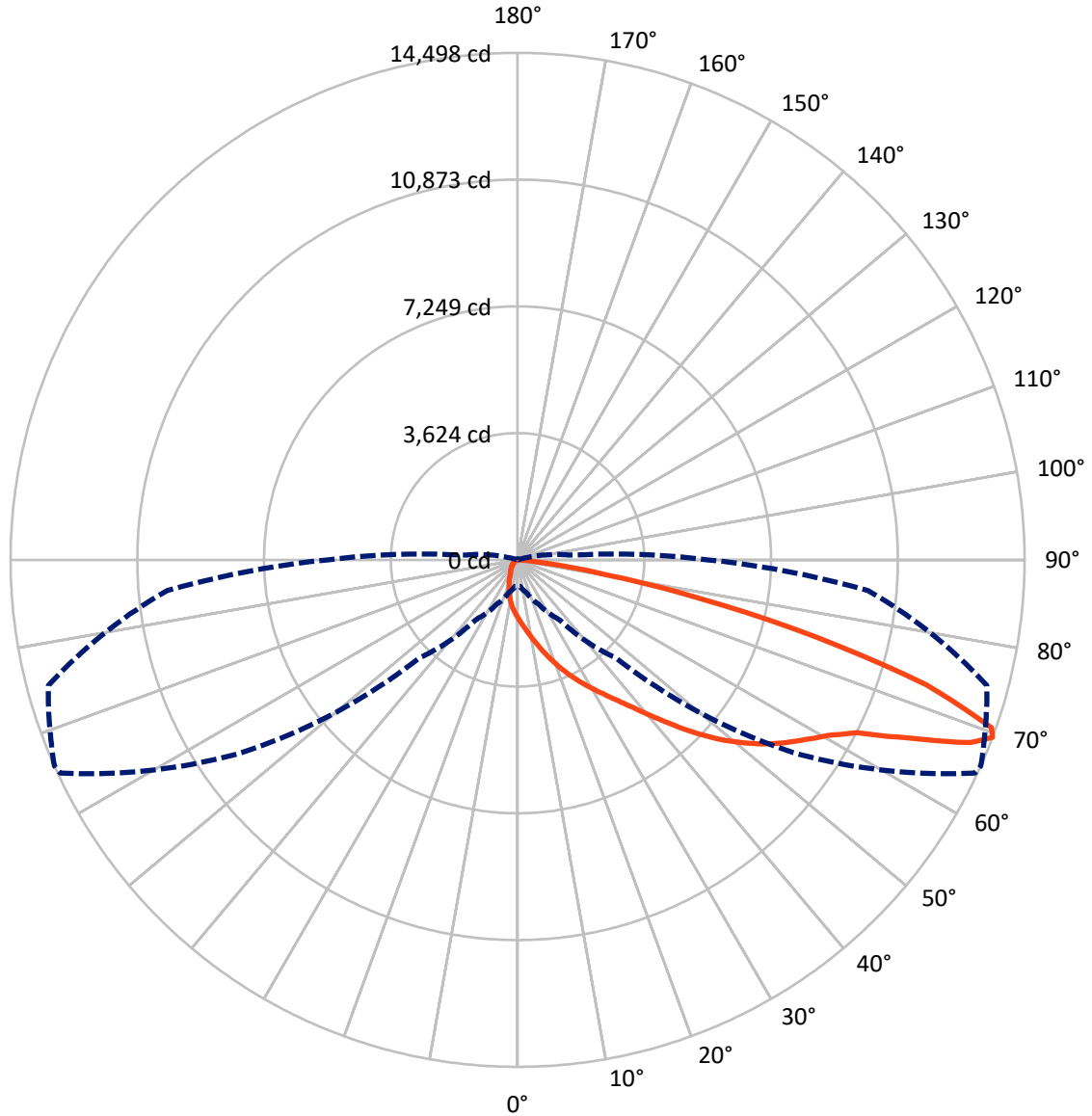
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	874.4	0.0	874.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	13702.6	0.0	13702.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	14577.0	0.0	14577.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	1.1
10°-20°	477.2	3.3
20°-30°	831.1	5.7
30°-40°	1458.1	10.0
40°-50°	2440.6	16.7
50°-60°	3587.5	24.6
60°-70°	3683.5	25.3
70°-80°	1818.4	12.5
80°-90°	120.2	0.8
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°	14577.0	100.0
0°-180°	14577.0	100.0

Coefficient of Utilization

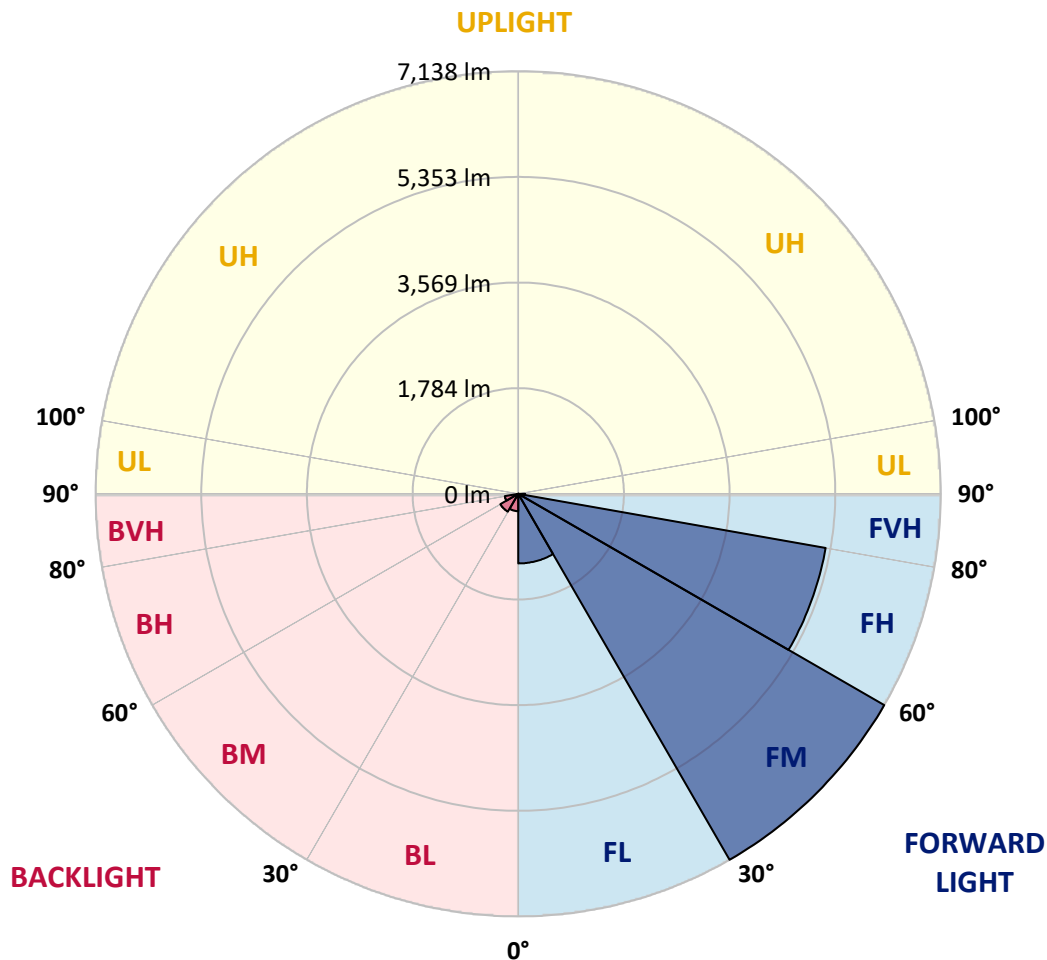


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1176.2	8.1			
FM (30°-60°)	7137.6	49.0			
FH (60°-80°)	5271.4	36.2			G3/7500
FVH (80°-90°)	117.3	0.8			G2/225
BL (0°-30°)	292.4	2.0	B1/500		
BM (30°-60°)	348.6	2.4	B1/1000		
BH (60°-80°)	230.4	1.6	B1/500		G1/500
BVH (80°-90°)	2.9	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1952.5	1944.2	1940.7	1925.5	1899.2	1879.1	1840.3	1795.3	1787.0	1743.4	1690.1
5°	2205.9	2199.0	2194.1	2172.6	2145.6	2095.1	2024.5	1940.7	1924.8	1841.7	1735.1
7.5°	2382.4	2394.9	2394.9	2381.0	2347.1	2309.0	2222.5	2108.3	2088.2	1960.8	1795.3
10°	2485.6	2500.8	2512.6	2524.4	2519.5	2504.3	2422.6	2293.8	2269.6	2100.6	1865.2
12.5°	2495.3	2510.5	2543.8	2592.9	2640.7	2675.3	2624.1	2499.4	2471.7	2262.7	1948.3
15°	2441.3	2457.2	2508.4	2604.0	2719.6	2820.7	2837.3	2727.2	2698.8	2455.8	2052.2
17.5°	2347.1	2357.5	2430.9	2563.1	2744.5	2930.1	3030.5	2971.6	2945.3	2676.7	2167.8
20°	2277.2	2284.8	2349.2	2491.1	2729.3	2998.6	3213.3	3231.3	3203.6	2913.5	2293.1
22.5°	2397.0	2410.8	2412.9	2480.1	2687.8	3032.6	3373.9	3486.8	3466.0	3164.8	2416.4
25°	2724.5	2740.4	2687.8	2646.2	2723.1	3047.8	3511.7	3748.5	3731.9	3435.5	2540.3
27.5°	3157.2	3173.8	3106.0	2982.0	2907.9	3105.3	3634.2	4014.3	4013.6	3722.2	2673.9
30°	3582.3	3598.9	3529.7	3405.7	3235.4	3268.0	3740.2	4292.7	4296.8	4017.8	2815.9
32.5°	4028.2	4049.0	3977.6	3818.4	3640.5	3549.1	3889.0	4572.4	4595.9	4360.5	2975.8
35°	4535.0	4537.8	4437.4	4270.5	4065.6	3925.0	4127.9	4886.0	4942.1	4784.9	3178.7
37.5°	5032.1	5052.2	4969.8	4706.7	4518.4	4359.1	4483.1	5277.9	5357.5	5303.5	3443.8
40°	5400.5	5442.7	5430.9	5147.1	4968.4	4854.9	4924.1	5743.9	5845.0	5907.3	3778.2
42.5°	5631.7	5663.6	5717.6	5546.5	5384.5	5403.2	5444.8	6286.7	6411.3	6595.5	4162.5
45°	5896.9	5912.1	5957.1	5881.7	5772.3	5960.6	5997.3	6898.0	7028.9	7335.6	4589.0
47.5°	6220.9	6256.9	6269.4	6200.1	6150.3	6453.5	6529.7	7454.0	7637.5	8128.4	5040.4
50°	6633.6	6643.3	6664.7	6619.7	6569.9	6877.3	7007.4	8037.7	8204.5	8923.9	5485.6
52.5°	7037.2	7071.8	7146.6	7118.2	7098.1	7238.0	7433.2	8563.9	8750.1	9587.2	5930.1
55°	7153.5	7183.3	7441.6	7618.1	7781.5	7682.5	7840.4	9035.4	9236.9	10179.9	6358.0
57.5°	6688.9	6749.2	7196.5	7656.2	8334.0	8373.5	8399.8	9519.3	9700.1	10634.1	6803.2
60°	5514.7	5526.5	6260.4	7049.0	8242.6	8976.5	9216.8	10039.3	10190.9	11057.1	7336.3
62.5°	3507.5	3627.3	4432.5	5545.9	7276.1	8889.3	10204.8	10825.8	10881.2	11564.6	8100.7
65°	1670.7	1748.2	2328.4	3426.5	5270.3	7772.5	10886.8	12248.7	12273.6	12570.6	9121.9
67.5°	925.0	962.4	1238.6	1844.5	3081.0	5496.7	10611.2	13933.9	13957.4	13598.1	10017.8
69°	723.5	755.4	972.8	1390.3	2088.9	3950.6	9602.4	14427.5	14497.5	13892.3	10049.7
70°	614.1	645.3	837.8	1174.3	1679.7	3052.6	8547.3	14305.0	14379.1	13864.6	9812.2
72.5°	376.0	394.0	558.0	826.7	1125.8	1535.7	5271.0	12097.7	12223.0	12718.1	8433.0
75°	253.4	263.1	349.0	570.5	805.2	790.7	2738.3	8527.2	8798.6	9893.2	6228.5
77.5°	181.4	190.4	234.0	369.0	564.3	522.0	1240.0	5299.4	5357.5	5933.6	3396.7
80°	103.2	111.5	165.5	219.5	382.9	348.3	493.0	2531.3	2560.4	2544.4	1134.1
82.5°	54.0	60.9	90.7	144.7	245.8	227.8	204.9	847.5	851.6	708.3	248.6
85°	10.4	12.5	45.0	99.0	126.7	99.0	83.8	198.7	202.9	179.3	61.6
87.5°	0.0	0.7	18.0	22.2	24.9	25.6	27.0	38.8	41.5	56.1	16.6
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°	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9	1658.9
2.5°	1666.5	1641.6	1593.8	1538.4	1495.5	1453.3	1420.0	1385.4	1373.0	1366.7	1366.0
5°	1683.1	1630.5	1529.4	1425.6	1340.4	1260.1	1202.6	1147.9	1122.3	1110.6	1105.7
7.5°	1710.8	1626.4	1463.7	1305.1	1182.6	1082.2	1002.5	943.0	913.2	900.8	895.9
10°	1743.4	1620.8	1386.8	1177.7	1021.2	917.4	838.5	779.6	747.1	733.2	726.3
12.5°	1781.5	1611.1	1298.2	1048.9	883.5	779.6	684.1	611.4	574.0	558.0	550.4
15°	1828.5	1601.4	1205.4	927.8	762.3	635.6	531.0	481.9	474.3	471.5	472.2
17.5°	1874.9	1586.2	1104.3	808.0	634.9	496.4	443.1	440.3	441.7	441.7	441.7
20°	1916.5	1551.6	994.2	705.5	513.7	418.9	407.8	403.0	399.5	396.7	393.3
22.5°	1949.0	1505.2	888.3	603.7	419.6	383.6	366.3	351.0	338.6	330.3	326.1
25°	1971.2	1443.6	791.4	506.1	377.3	349.0	317.8	292.2	272.8	261.0	256.2
27.5°	1987.8	1377.1	704.8	423.7	348.3	308.8	267.9	237.5	217.4	207.0	202.9
30°	1999.6	1301.6	628.7	372.5	315.7	266.6	222.9	193.2	178.6	173.1	170.3
32.5°	2010.6	1217.9	556.7	348.3	285.3	227.8	186.9	164.1	155.1	148.2	146.1
35°	2038.3	1140.3	488.1	322.6	254.1	194.6	160.6	144.0	135.0	130.9	129.5
37.5°	2104.1	1082.9	422.3	296.3	222.9	168.2	140.6	128.8	120.5	116.3	114.9
40°	2210.0	1053.8	367.0	267.9	192.5	148.2	127.4	116.3	107.3	101.1	99.7
42.5°	2365.8	1057.9	328.2	239.6	168.2	132.2	114.9	101.8	92.1	86.5	85.2
45°	2554.8	1088.4	301.2	211.9	148.2	119.8	101.1	87.2	78.2	73.4	72.0
47.5°	2759.8	1137.6	279.0	186.9	132.2	108.0	87.2	72.7	65.1	60.9	60.2
50°	2975.8	1185.3	256.2	162.7	118.4	96.2	73.4	60.2	54.0	50.5	49.2
52.5°	3194.6	1240.7	235.4	140.6	106.6	82.4	60.9	49.2	44.3	41.5	40.2
55°	3430.0	1282.3	215.3	123.2	94.9	69.9	50.5	40.8	36.7	33.2	32.5
57.5°	3706.9	1346.7	194.6	106.6	81.0	58.2	41.5	32.5	29.1	25.6	24.9
60°	4080.8	1422.1	172.4	94.2	66.5	47.8	33.9	26.3	22.2	19.4	18.7
62.5°	4573.8	1505.9	144.7	82.4	54.0	38.8	27.0	20.8	15.9	12.5	12.5
65°	5199.0	1642.3	118.4	69.2	44.3	31.8	20.8	15.2	9.0	5.5	5.5
67.5°	5563.9	1665.8	95.5	56.8	36.0	27.0	17.3	10.4	2.8	0.7	0.0
69°	5446.8	1529.4	81.0	48.5	31.2	25.6	15.9	7.6	1.4	0.0	0.0
70°	5226.7	1398.6	71.3	42.9	28.4	24.2	15.2	5.5	1.4	0.0	0.0
72.5°	4319.0	995.6	54.0	31.8	20.8	21.5	13.8	3.5	1.4	0.0	0.0
75°	3146.1	605.1	38.8	22.2	13.2	15.9	9.7	1.4	0.7	0.0	0.0
77.5°	1750.3	285.3	24.2	12.5	8.3	9.7	4.8	0.0	0.0	0.0	0.0
80°	568.4	77.5	11.1	6.9	4.8	5.5	2.1	0.0	0.0	0.0	0.0
82.5°	105.2	22.2	6.2	3.5	1.4	1.4	0.0	0.0	0.0	0.0	0.0
85°	22.8	9.0	3.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	2.8	0.7	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)