

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: P322045

Luminaire Tested: **GLEON-SA1C-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322045
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-SA1C-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3873 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

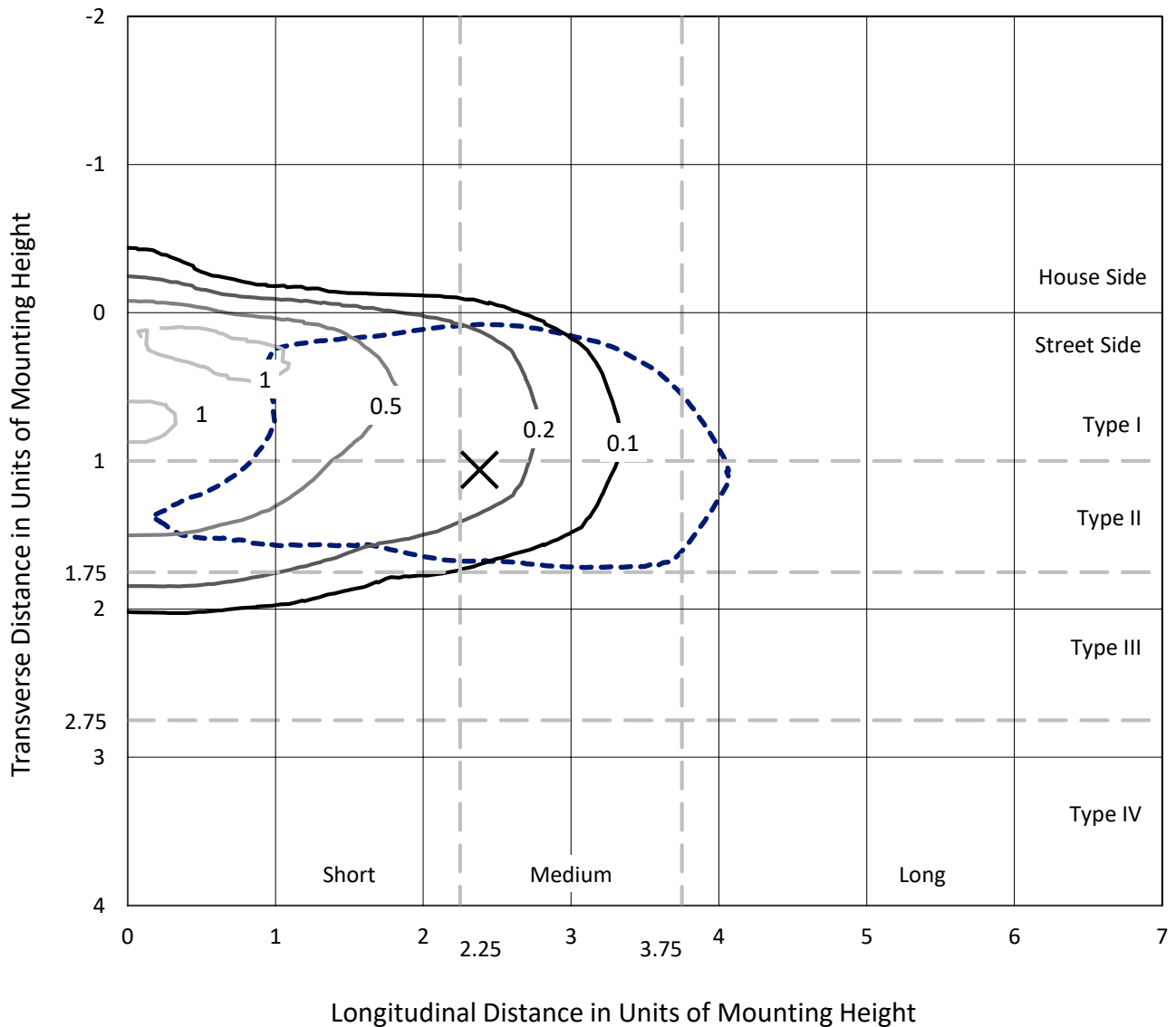
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

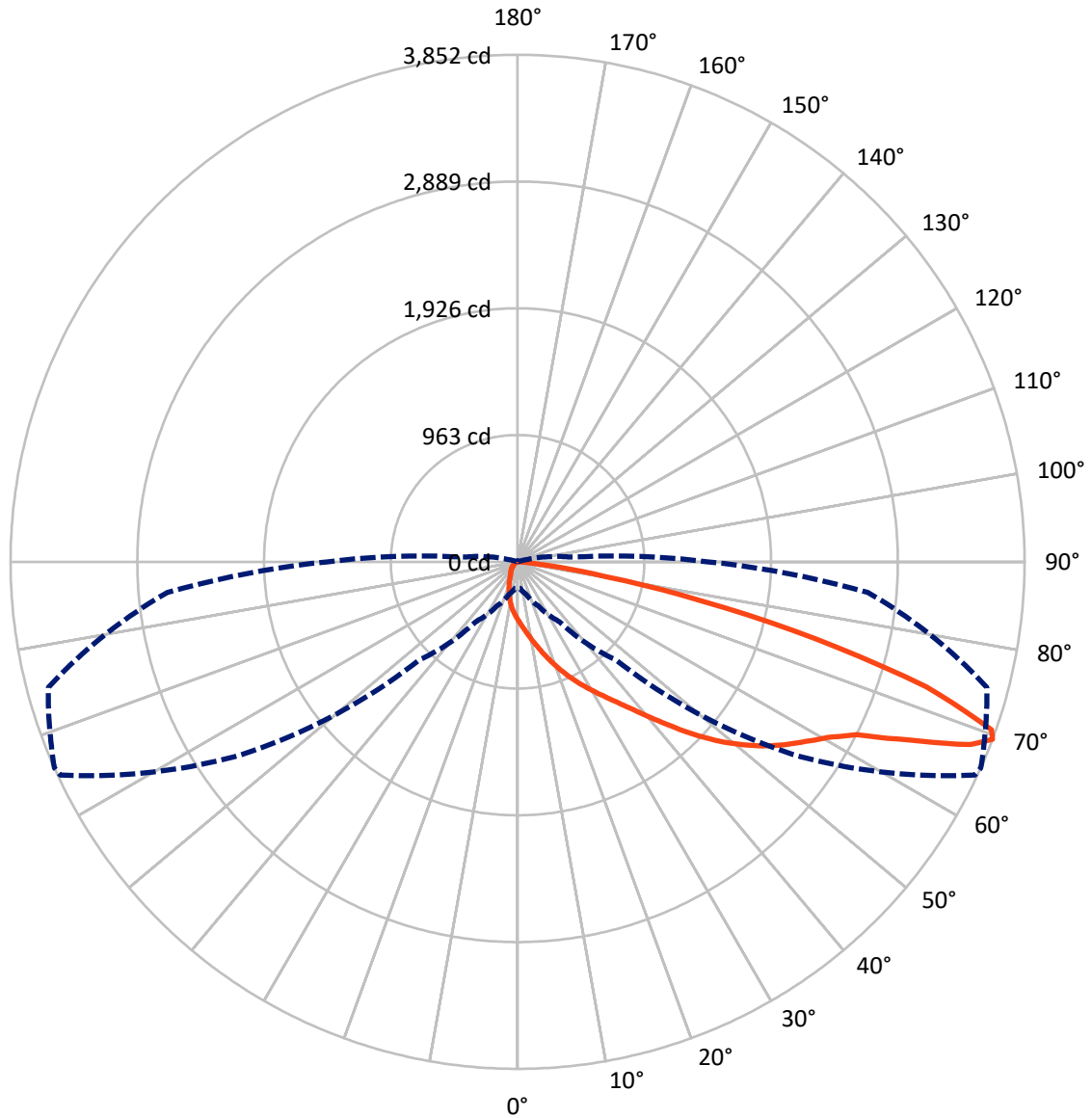
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	232.3	0.0	232.3
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	3640.7	0.0	3640.7
	% Fixture	94.0	0.0	94.0
Total	Lumens	3873.0	0.0	3873.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.1
10°-20°	126.8	3.3
20°-30°	220.8	5.7
30°-40°	387.4	10.0
40°-50°	648.5	16.7
50°-60°	953.2	24.6
60°-70°	978.7	25.3
70°-80°	483.1	12.5
80°-90°	31.9	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°	3873.0	100.0
0°-180°	3873.0	100.0

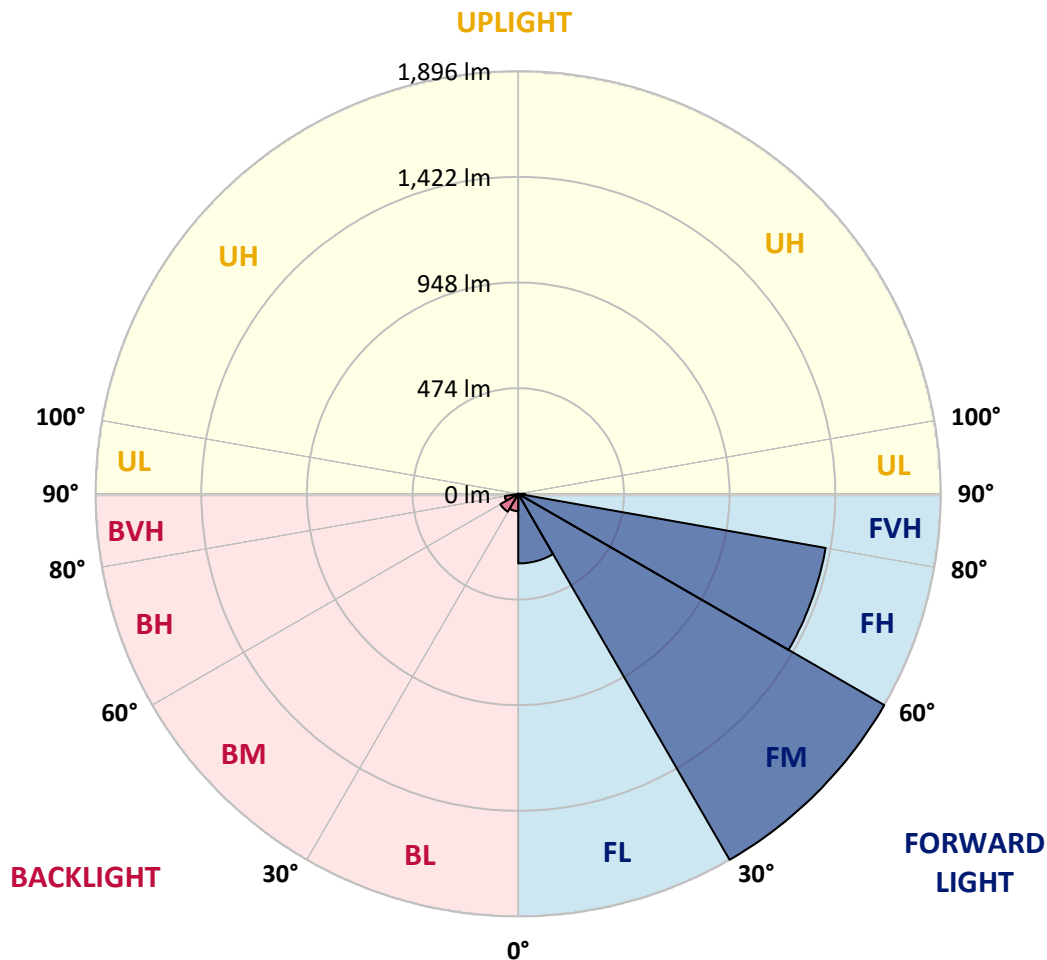


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	312.5	8.1			
FM (30°-60°)	1896.4	49.0			
FH (60°-80°)	1400.6	36.2			G1/1800
FVH (80°-90°)	31.2	0.8			G1/100
BL (0°-30°)	77.7	2.0	B0/110		
BM (30°-60°)	92.6	2.4	B0/220		
BH (60°-80°)	61.2	1.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8
2.5°	518.8	516.5	515.6	511.6	504.6	499.3	489.0	477.0	474.8	463.2	449.0
5°	586.1	584.2	583.0	577.3	570.1	556.7	537.9	515.6	511.4	489.3	461.0
7.5°	633.0	636.3	636.3	632.6	623.6	613.5	590.5	560.1	554.8	521.0	477.0
10°	660.4	664.5	667.6	670.7	669.4	665.4	643.7	609.4	603.0	558.1	495.6
12.5°	663.0	667.0	675.9	688.9	701.6	710.8	697.2	664.1	656.7	601.2	517.7
15°	648.6	652.9	666.5	691.9	722.6	749.4	753.9	724.6	717.1	652.5	545.2
17.5°	623.6	626.4	645.9	681.0	729.2	778.5	805.2	789.5	782.6	711.2	576.0
20°	605.0	607.1	624.2	661.9	725.2	796.7	853.7	858.5	851.2	774.1	609.3
22.5°	636.9	640.5	641.1	658.9	714.1	805.7	896.4	926.4	920.9	840.9	642.0
25°	723.9	728.1	714.1	703.1	723.5	809.8	933.0	995.9	991.5	912.8	674.9
27.5°	838.8	843.3	825.2	792.3	772.6	825.0	965.6	1066.6	1066.4	989.0	710.4
30°	951.8	956.2	937.8	904.9	859.6	868.3	993.7	1140.5	1141.6	1067.5	748.2
32.5°	1070.3	1075.8	1056.8	1014.5	967.2	943.0	1033.3	1214.8	1221.1	1158.6	790.6
35°	1204.9	1205.7	1179.0	1134.6	1080.2	1042.8	1096.7	1298.2	1313.1	1271.3	844.5
37.5°	1337.0	1342.3	1320.4	1250.5	1200.5	1158.2	1191.1	1402.3	1423.5	1409.1	915.0
40°	1434.9	1446.1	1443.0	1367.5	1320.1	1289.9	1308.3	1526.1	1553.0	1569.5	1003.9
42.5°	1496.3	1504.8	1519.1	1473.7	1430.6	1435.6	1446.6	1670.3	1703.4	1752.4	1105.9
45°	1566.8	1570.8	1582.8	1562.7	1533.6	1583.7	1593.4	1832.8	1867.5	1949.0	1219.3
47.5°	1652.8	1662.4	1665.7	1647.3	1634.1	1714.7	1734.9	1980.5	2029.2	2159.6	1339.2
50°	1762.5	1765.1	1770.8	1758.8	1745.6	1827.2	1861.8	2135.6	2179.9	2371.0	1457.5
52.5°	1869.7	1878.9	1898.8	1891.3	1885.9	1923.1	1975.0	2275.4	2324.8	2547.2	1575.6
55°	1900.6	1908.5	1977.2	2024.1	2067.5	2041.2	2083.1	2400.6	2454.2	2704.7	1689.3
57.5°	1777.2	1793.2	1912.0	2034.2	2214.3	2224.8	2231.8	2529.2	2577.2	2825.4	1807.6
60°	1465.2	1468.3	1663.3	1872.9	2190.0	2385.0	2448.8	2667.4	2707.7	2937.8	1949.2
62.5°	931.9	963.7	1177.7	1473.5	1933.2	2361.8	2711.3	2876.3	2891.1	3072.6	2152.3
65°	443.9	464.5	618.6	910.4	1400.3	2065.1	2892.5	3254.4	3261.0	3339.9	2423.6
67.5°	245.8	255.7	329.1	490.1	818.6	1460.4	2819.3	3702.1	3708.4	3612.9	2661.7
69°	192.2	200.7	258.5	369.4	555.0	1049.7	2551.3	3833.3	3851.9	3691.1	2670.1
70°	163.2	171.4	222.6	312.0	446.3	811.1	2270.9	3800.7	3820.4	3683.7	2607.0
72.5°	99.9	104.7	148.3	219.6	299.1	408.0	1400.5	3214.3	3247.6	3379.1	2240.6
75°	67.3	69.9	92.7	151.6	213.9	210.1	727.5	2265.6	2337.7	2628.6	1654.9
77.5°	48.2	50.6	62.2	98.0	149.9	138.7	329.5	1408.0	1423.5	1576.5	902.5
80°	27.4	29.6	44.0	58.3	101.7	92.5	131.0	672.5	680.3	676.0	301.3
82.5°	14.3	16.2	24.1	38.4	65.3	60.5	54.5	225.2	226.3	188.2	66.0
85°	2.8	3.3	12.0	26.3	33.7	26.3	22.3	52.8	53.9	47.6	16.4
87.5°	0.0	0.2	4.8	5.9	6.6	6.8	7.2	10.3	11.0	14.9	4.4
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°	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8	440.8
2.5°	442.8	436.2	423.5	408.8	397.3	386.1	377.3	368.1	364.8	363.1	362.9
5°	447.2	433.2	406.4	378.8	356.1	334.8	319.5	305.0	298.2	295.1	293.8
7.5°	454.6	432.1	388.9	346.8	314.2	287.5	266.4	250.5	242.6	239.3	238.0
10°	463.2	430.6	368.5	312.9	271.3	243.7	222.8	207.1	198.5	194.8	193.0
12.5°	473.3	428.1	344.9	278.7	234.7	207.1	181.7	162.4	152.5	148.3	146.2
15°	485.8	425.5	320.3	246.5	202.5	168.9	141.1	128.0	126.0	125.3	125.5
17.5°	498.2	421.4	293.4	214.7	168.7	131.9	117.7	117.0	117.4	117.4	117.4
20°	509.2	412.2	264.2	187.5	136.5	111.3	108.4	107.1	106.1	105.4	104.5
22.5°	517.8	399.9	236.0	160.4	111.5	101.9	97.3	93.3	90.0	87.7	86.6
25°	523.7	383.5	210.3	134.5	100.3	92.7	84.4	77.6	72.5	69.4	68.1
27.5°	528.1	365.9	187.3	112.6	92.5	82.0	71.2	63.1	57.8	55.0	53.9
30°	531.3	345.8	167.0	99.0	83.9	70.8	59.2	51.3	47.5	46.0	45.3
32.5°	534.2	323.6	147.9	92.5	75.8	60.5	49.7	43.6	41.2	39.4	38.8
35°	541.6	303.0	129.7	85.7	67.5	51.7	42.7	38.3	35.9	34.8	34.4
37.5°	559.0	287.7	112.2	78.7	59.2	44.7	37.3	34.2	32.0	30.9	30.5
40°	587.2	280.0	97.5	71.2	51.1	39.4	33.8	30.9	28.5	26.9	26.5
42.5°	628.6	281.1	87.2	63.6	44.7	35.1	30.5	27.0	24.5	23.0	22.6
45°	678.8	289.2	80.0	56.3	39.4	31.8	26.9	23.2	20.8	19.5	19.1
47.5°	733.3	302.2	74.1	49.7	35.1	28.7	23.2	19.3	17.3	16.2	16.0
50°	790.6	314.9	68.1	43.2	31.5	25.6	19.5	16.0	14.3	13.4	13.1
52.5°	848.8	329.7	62.5	37.3	28.3	21.9	16.2	13.1	11.8	11.0	10.7
55°	911.3	340.7	57.2	32.7	25.2	18.6	13.4	10.9	9.7	8.8	8.6
57.5°	984.9	357.8	51.7	28.3	21.5	15.5	11.0	8.6	7.7	6.8	6.6
60°	1084.2	377.8	45.8	25.0	17.7	12.7	9.0	7.0	5.9	5.2	5.0
62.5°	1215.2	400.1	38.4	21.9	14.3	10.3	7.2	5.5	4.2	3.3	3.3
65°	1381.3	436.3	31.5	18.4	11.8	8.5	5.5	4.0	2.4	1.5	1.5
67.5°	1478.3	442.6	25.4	15.1	9.6	7.2	4.6	2.8	0.7	0.2	0.0
69°	1447.2	406.4	21.5	12.9	8.3	6.8	4.2	2.0	0.4	0.0	0.0
70°	1388.7	371.6	18.9	11.4	7.5	6.4	4.0	1.5	0.4	0.0	0.0
72.5°	1147.5	264.5	14.3	8.5	5.5	5.7	3.7	0.9	0.4	0.0	0.0
75°	835.9	160.8	10.3	5.9	3.5	4.2	2.6	0.4	0.2	0.0	0.0
77.5°	465.0	75.8	6.4	3.3	2.2	2.6	1.3	0.0	0.0	0.0	0.0
80°	151.0	20.6	2.9	1.8	1.3	1.5	0.6	0.0	0.0	0.0	0.0
82.5°	28.0	5.9	1.7	0.9	0.4	0.4	0.0	0.0	0.0	0.0	0.0
85°	6.1	2.4	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	0.2	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)