

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: P382728

Luminaire Tested: **GLEON-SA1A-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1A-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3669.4 lumens
Efficiency: N/A
Efficacy: 107.9 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

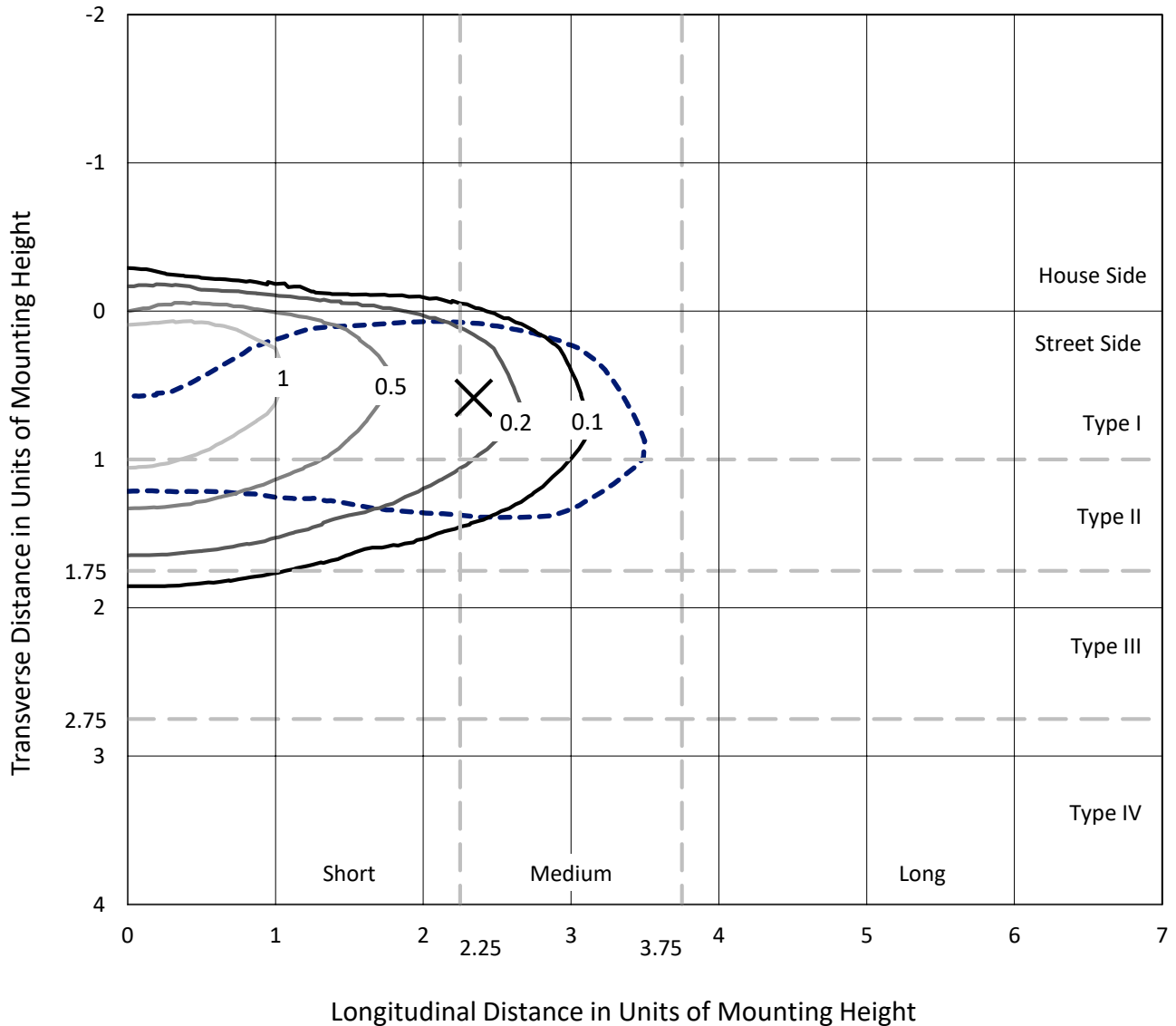
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P382728
 CATALOG NUMBER: GLEON-SA1A-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

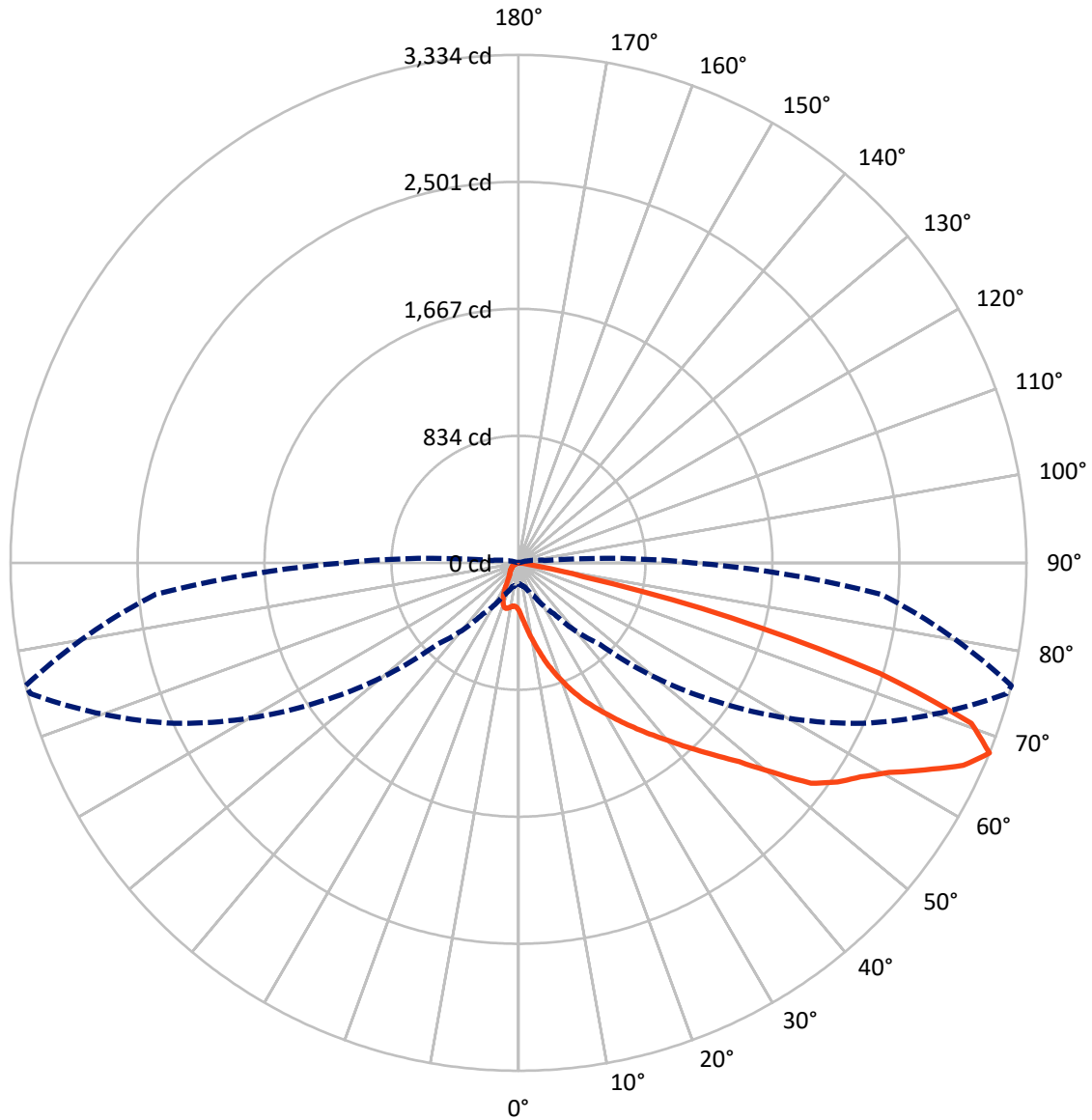
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type II - Medium - N/A

REPORT NUMBER: P382728
CATALOG NUMBER: GLEON-SA1A-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	182.2	0.0	182.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3487.1	0.0	3487.1
	% Fixture	95.0	0.0	95.0
Total	Lumens	3669.4	0.0	3669.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.1
10°-20°	153.4	4.2
20°-30°	312.2	8.5
30°-40°	541.9	14.8
40°-50°	765.6	20.9
50°-60°	868.2	23.7
60°-70°	720.1	19.6
70°-80°	260.8	7.1
80°-90°	8.5	0.2
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°	3669.4	100.0
0°-180°	3669.4	100.0

Coefficient of Utilization

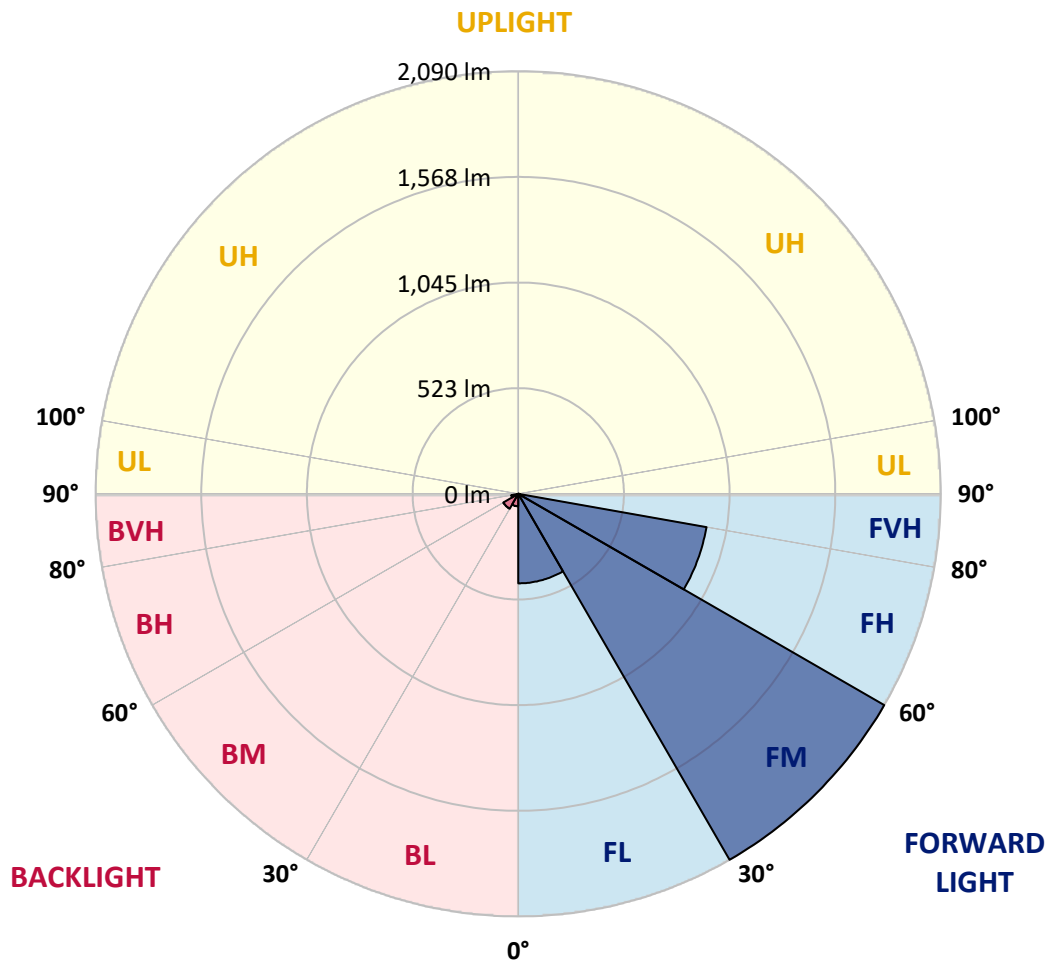


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.9	12.1			
FM (30°-60°)	2090.4	57.0			
FH (60°-80°)	945.7	25.8			G1/1800
FVH (80°-90°)	8.2	0.2			G0/10
BL (0°-30°)	61.5	1.7	B0/110		
BM (30°-60°)	85.3	2.3	B0/220		
BH (60°-80°)	35.2	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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





REPORT NUMBER: P382728

CATALOG NUMBER: GLEON-SA1A-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2
2.5°	464.7	454.2	456.6	449.8	437.6	412.6	391.2	370.9	347.3	346.4	327.1
5°	626.6	617.7	616.6	602.9	580.7	538.2	496.6	449.4	396.7	392.7	351.5
7.5°	773.5	766.5	763.9	747.7	706.3	664.8	610.8	541.3	458.9	451.8	384.4
10°	886.4	883.0	883.7	872.0	836.7	798.1	727.2	638.6	529.5	518.5	423.9
12.5°	971.9	972.7	978.5	971.4	951.7	923.1	847.3	742.4	607.6	592.7	469.1
15°	1034.8	1038.8	1049.4	1058.2	1056.8	1032.1	962.6	847.6	690.6	674.0	519.5
17.5°	1075.5	1079.9	1095.4	1115.0	1133.0	1127.3	1073.9	949.2	774.5	755.3	573.4
20°	1111.1	1116.5	1133.0	1158.9	1192.5	1199.7	1164.7	1047.8	858.2	834.9	629.0
22.5°	1188.5	1188.3	1198.4	1213.5	1245.6	1264.2	1242.0	1139.3	941.0	916.7	685.7
25°	1328.4	1323.1	1319.5	1307.6	1314.7	1326.2	1313.9	1224.8	1024.3	999.7	743.3
27.5°	1494.6	1497.8	1469.2	1437.2	1412.4	1400.6	1380.3	1304.1	1104.3	1077.3	799.5
30°	1670.0	1671.0	1637.2	1596.4	1541.9	1496.7	1461.6	1379.8	1186.7	1157.3	854.2
32.5°	1828.3	1821.9	1788.5	1732.9	1664.0	1613.3	1540.4	1464.4	1273.9	1245.4	915.0
35°	1953.6	1946.2	1905.6	1854.9	1783.5	1732.4	1644.7	1548.8	1365.5	1337.7	975.9
37.5°	2045.3	2036.5	1994.8	1942.6	1881.1	1851.4	1765.8	1640.5	1465.5	1435.6	1040.1
40°	2077.1	2069.5	2043.3	2005.2	1955.7	1949.0	1894.3	1746.2	1574.3	1542.5	1112.7
42.5°	2058.2	2050.7	2041.4	2028.5	2008.0	2014.4	2015.5	1866.6	1695.2	1663.9	1192.9
45°	1982.9	1976.3	1986.0	2004.8	2030.3	2062.2	2126.2	1996.1	1830.3	1796.9	1285.7
47.5°	1872.1	1867.3	1894.0	1941.0	2015.7	2103.4	2227.2	2132.1	1982.0	1950.9	1401.5
50°	1714.5	1713.8	1767.1	1852.8	1967.8	2123.4	2331.8	2286.8	2192.6	2159.9	1562.5
52.5°	1469.2	1470.8	1575.8	1712.9	1883.7	2109.9	2399.0	2485.5	2437.6	2403.7	1701.8
55°	1235.6	1245.2	1319.6	1517.4	1754.8	2059.7	2422.1	2578.2	2572.7	2540.6	1779.3
57.5°	1006.8	1024.3	1096.1	1280.8	1566.5	1944.1	2409.4	2618.5	2673.4	2648.9	1881.6
60°	758.8	766.9	849.6	1022.3	1324.8	1733.2	2317.3	2640.3	2811.0	2794.0	2030.0
62.5°	482.8	502.9	576.3	742.8	1031.6	1440.3	2162.0	2640.0	2983.3	2992.6	2221.5
65°	254.3	277.8	316.7	460.3	708.9	1113.1	1928.4	2615.2	3194.6	3207.5	2371.2
67.5°	137.1	143.9	164.5	238.9	411.1	754.1	1585.1	2493.0	3316.9	3334.1	2392.0
70°	100.3	104.1	111.8	132.2	206.9	437.9	1156.6	2216.1	3159.2	3152.7	2125.3
72.5°	77.0	82.8	88.6	96.8	119.0	233.8	720.1	1735.3	2520.7	2478.3	1588.7
75°	60.7	61.8	70.0	77.3	89.2	133.1	319.8	1010.6	1538.5	1438.0	823.9
77.5°	48.5	49.2	54.0	60.5	71.7	87.5	99.0	397.6	491.2	438.3	178.8
80°	28.8	30.4	40.1	46.7	59.5	55.1	36.1	86.4	76.7	69.5	30.1
82.5°	16.1	17.3	22.6	36.8	41.5	26.4	18.0	23.3	18.0	17.5	8.5
85°	0.0	0.8	14.6	22.8	16.9	5.8	7.5	7.7	5.3	5.0	3.4
87.5°	0.0	0.0	4.5	4.4	0.7	0.9	1.8	2.6	2.0	2.0	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P382728

CATALOG NUMBER: GLEON-SA1A-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2	311.2
2.5°	317.4	308.7	292.3	276.2	262.7	251.6	241.6	237.6	234.4	233.9	231.4
5°	331.5	314.0	282.6	256.9	239.7	227.5	217.1	210.6	205.6	203.7	202.0
7.5°	352.9	326.4	281.3	251.8	231.2	210.6	191.3	170.4	157.4	152.4	149.5
10°	379.0	342.8	286.2	250.3	214.3	170.9	138.9	112.3	101.6	98.1	97.1
12.5°	409.3	363.2	294.6	241.4	178.3	121.4	95.9	86.8	84.4	83.3	83.3
15°	444.3	385.6	300.5	215.3	131.8	91.9	83.0	78.8	76.2	74.8	74.9
17.5°	479.9	407.5	297.6	177.5	97.3	81.7	75.1	70.6	67.1	65.6	65.3
20°	516.0	427.7	281.5	132.2	82.3	74.2	66.7	61.8	58.2	56.7	56.5
22.5°	553.2	444.9	253.2	97.0	74.0	65.8	58.5	53.6	50.1	48.9	48.3
25°	589.6	458.9	213.7	78.4	66.0	57.8	51.0	46.3	43.2	41.9	41.8
27.5°	623.5	467.7	167.9	69.3	59.2	50.8	44.5	40.3	37.8	36.8	36.7
30°	654.0	468.5	124.1	62.5	53.1	44.7	38.9	35.2	33.0	32.0	31.7
32.5°	684.9	461.8	90.4	56.5	47.4	39.4	33.7	30.8	29.3	28.4	28.4
35°	714.0	446.1	70.4	51.1	41.9	34.3	29.7	27.7	26.7	25.9	25.9
37.5°	742.4	423.9	59.8	46.5	36.8	29.9	26.2	25.0	24.1	23.3	23.3
40°	771.4	395.7	54.3	42.1	32.6	26.5	23.3	22.2	21.4	20.8	20.6
42.5°	806.9	363.2	50.8	38.1	29.0	23.5	20.6	19.3	18.6	18.0	17.7
45°	848.1	335.3	47.9	34.1	25.9	20.9	17.9	16.6	15.6	14.8	14.6
47.5°	907.4	315.0	44.1	29.7	23.0	18.2	15.5	14.0	12.6	11.7	11.6
50°	983.2	298.3	39.0	25.9	20.1	15.5	12.9	11.1	9.8	9.0	9.0
52.5°	1020.8	276.4	34.6	22.5	16.9	13.0	10.4	8.4	7.7	6.9	6.9
55°	1035.9	259.6	30.1	19.1	14.0	10.8	8.2	6.4	6.0	5.5	5.3
57.5°	1078.4	254.9	26.2	16.2	11.6	8.5	6.2	4.8	4.5	3.8	3.8
60°	1146.6	257.2	22.6	13.8	9.3	6.6	4.7	3.7	3.4	2.7	2.7
62.5°	1220.5	254.2	19.1	11.9	7.3	4.8	3.3	2.7	2.7	1.6	1.5
65°	1234.6	226.4	16.4	9.8	5.6	3.5	2.0	1.8	2.4	0.3	0.0
67.5°	1145.9	175.6	14.2	7.5	4.2	2.7	1.6	0.8	2.0	0.0	0.0
70°	916.3	111.6	11.5	5.5	3.3	2.2	1.3	0.3	1.6	0.0	0.0
72.5°	648.0	64.8	9.0	3.8	2.7	1.8	0.9	0.0	0.9	0.0	0.0
75°	327.6	34.6	5.6	2.9	2.0	1.3	0.7	0.0	0.2	0.0	0.0
77.5°	70.9	16.1	3.5	2.0	1.5	0.8	0.3	0.0	0.0	0.0	0.0
80°	15.5	7.1	2.2	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	5.6	3.7	1.1	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.1	2.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.7	0.2	0.2	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)