

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: P382732

Luminaire Tested: **GLEON-SA1A-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382732
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
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-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3495.2 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

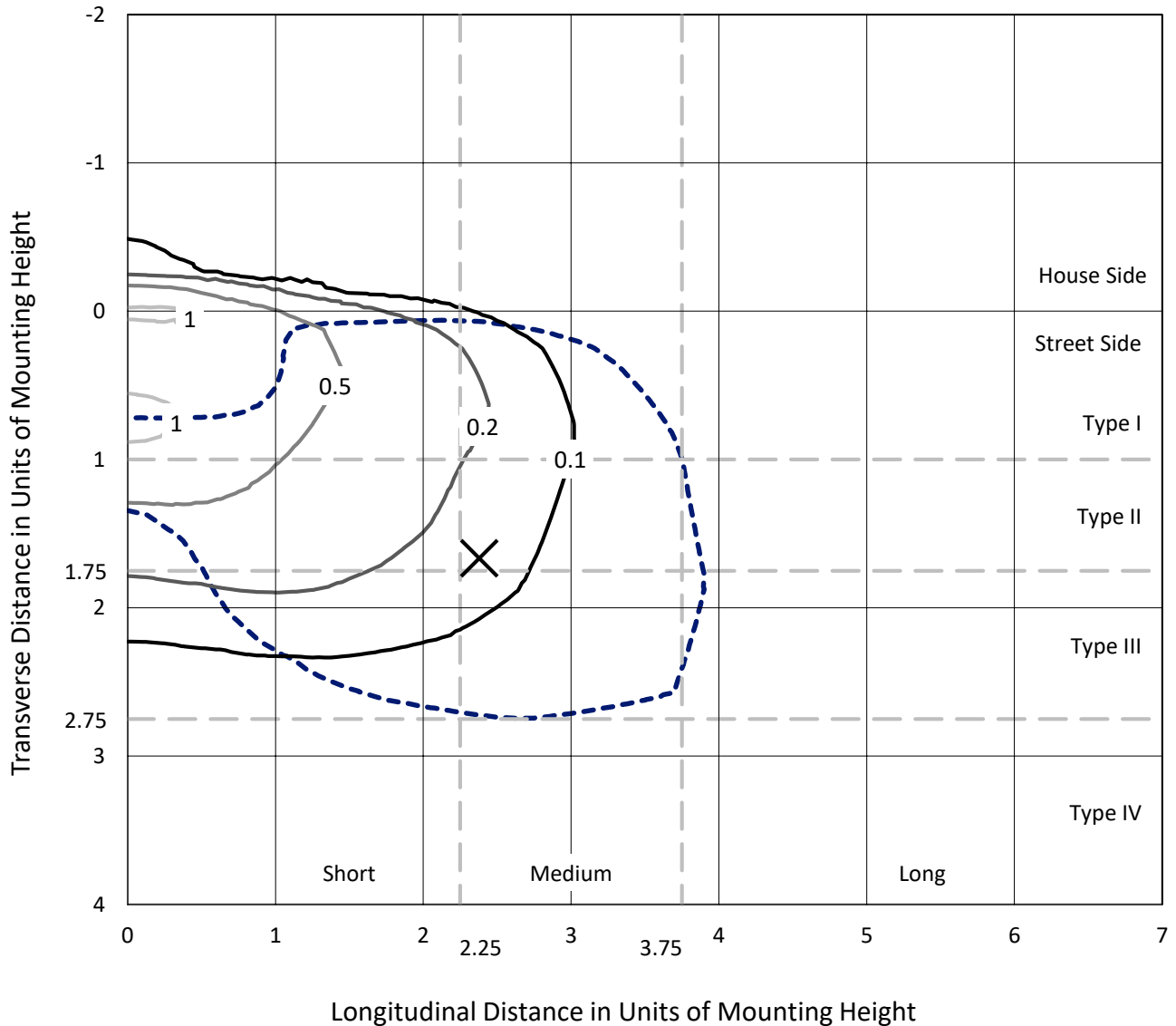
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

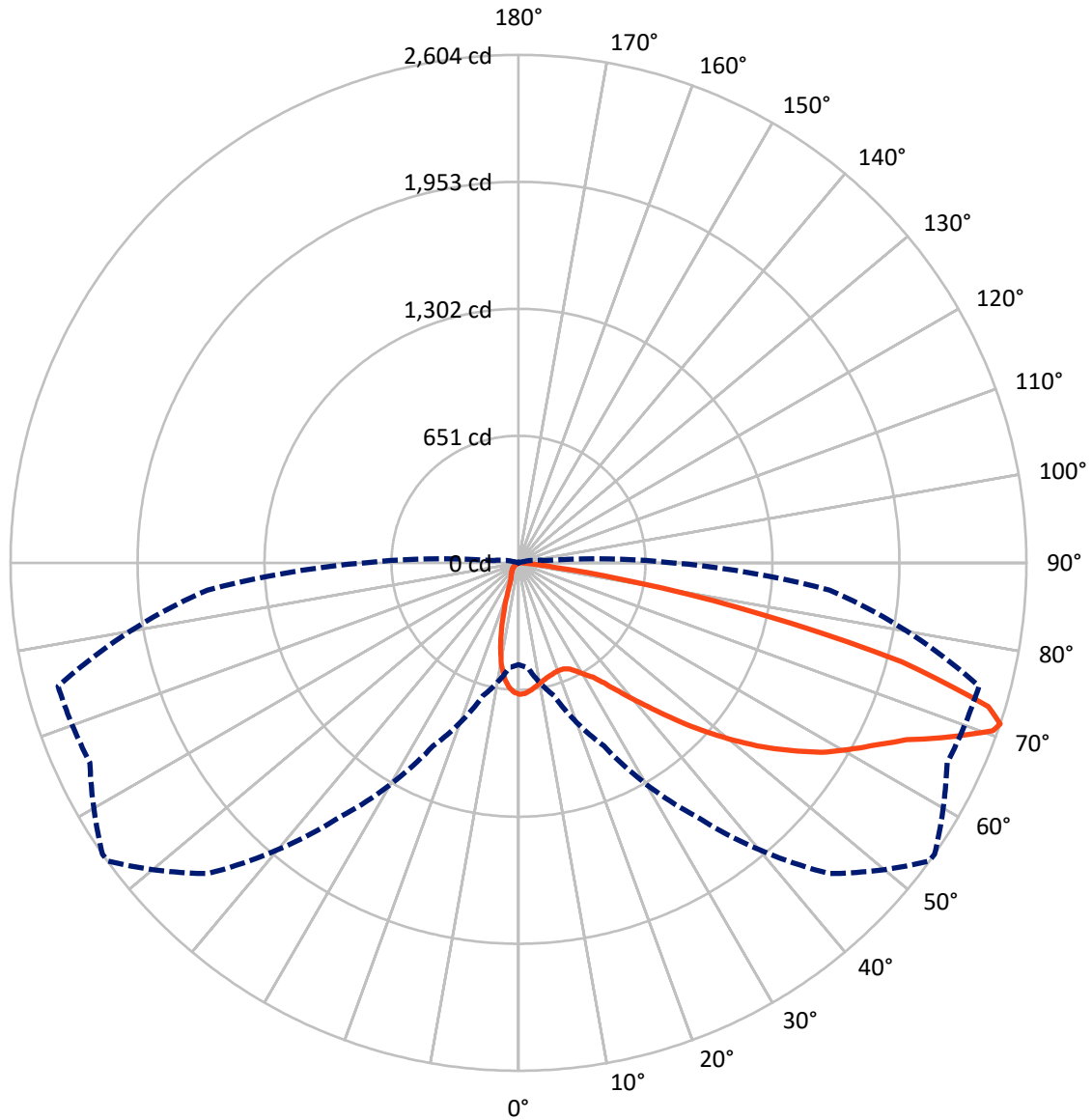
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	276.7	0.0	276.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3218.5	0.0	3218.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	3495.2	0.0	3495.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.6
10°-20°	129.7	3.7
20°-30°	208.5	6.0
30°-40°	354.3	10.1
40°-50°	549.9	15.7
50°-60°	739.3	21.2
60°-70°	904.4	25.9
70°-80°	528.8	15.1
80°-90°	22.9	0.7
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°	3495.2	100.0
0°-180°	3495.2	100.0

Coefficient of Utilization



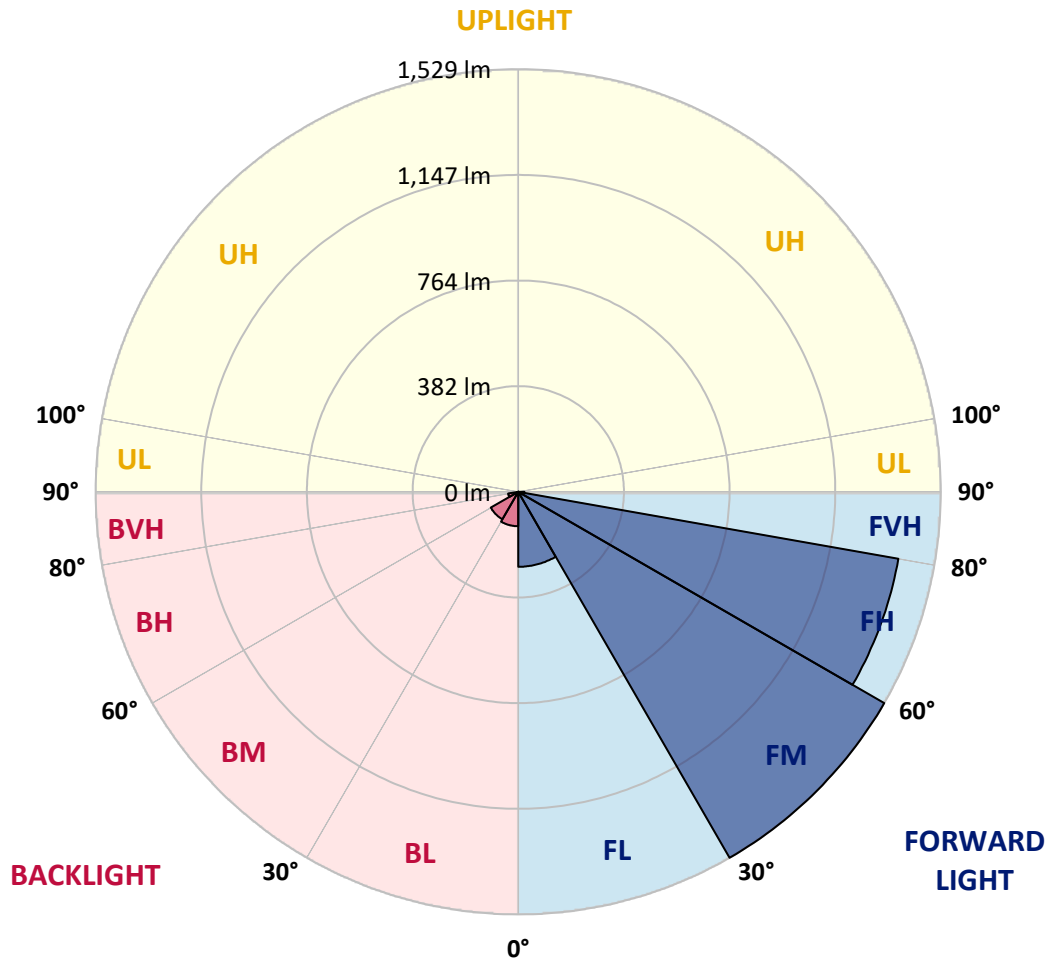
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.2	7.8			
FM (30°-60°)	1528.7	43.7			
FH (60°-80°)	1396.1	39.9			G1/1800
FVH (80°-90°)	22.5	0.6			G1/100
BL (0°-30°)	124.6	3.6	B1/500		
BM (30°-60°)	114.7	3.3	B0/220		
BH (60°-80°)	37.1	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1
2.5°	654.3	655.1	657.9	659.2	662.1	667.2	669.7	669.8	673.9	675.5	676.8
5°	608.0	612.7	617.4	622.5	631.5	643.6	655.5	656.6	669.8	679.6	684.7
7.5°	568.2	572.3	578.0	586.0	598.9	617.9	637.8	640.2	665.1	687.2	698.8
10°	527.2	530.6	538.8	550.5	568.2	593.7	620.5	624.4	660.8	697.6	718.0
12.5°	483.4	485.4	495.3	512.3	538.3	570.7	606.0	611.1	658.2	709.6	740.6
15°	450.1	451.1	460.5	478.1	507.9	549.9	594.6	600.9	658.8	723.8	765.3
17.5°	441.6	442.1	447.1	459.2	485.6	531.4	585.7	593.4	660.7	737.8	790.0
20°	476.0	472.7	467.5	465.7	477.0	520.3	580.4	589.0	663.3	750.2	812.3
22.5°	570.3	560.6	539.1	510.4	493.0	521.0	581.8	590.4	671.3	765.4	838.0
25°	710.3	696.8	660.3	603.7	549.4	543.7	593.6	602.3	686.7	783.6	862.7
27.5°	869.6	856.3	811.6	730.9	638.3	588.4	620.5	628.7	709.8	799.7	881.5
30°	1022.2	1018.4	965.6	874.0	750.0	660.8	655.3	662.3	727.0	809.5	896.4
32.5°	1151.5	1145.5	1103.1	1014.0	877.9	747.9	696.3	698.4	739.8	822.1	915.9
35°	1271.4	1264.0	1226.8	1142.5	1009.1	854.4	759.4	756.4	767.9	847.3	944.1
37.5°	1376.1	1382.8	1341.5	1261.3	1126.8	965.0	844.4	835.5	811.8	888.4	985.1
40°	1463.6	1463.6	1442.1	1375.2	1254.0	1079.4	940.7	928.9	877.9	951.9	1037.1
42.5°	1495.1	1501.9	1509.9	1472.1	1367.7	1198.4	1047.9	1035.6	971.0	1041.7	1102.7
45°	1497.1	1507.7	1548.7	1548.5	1470.5	1316.6	1168.7	1162.9	1090.3	1157.3	1184.0
47.5°	1470.5	1483.9	1551.3	1589.7	1552.0	1426.6	1300.9	1293.6	1230.4	1298.9	1269.0
50°	1429.6	1444.3	1522.8	1605.8	1607.4	1522.3	1440.1	1429.3	1384.7	1460.7	1356.9
52.5°	1356.2	1384.8	1497.2	1609.5	1643.8	1605.1	1572.5	1567.8	1557.3	1616.5	1426.9
55°	1199.5	1231.2	1433.0	1610.8	1677.5	1678.3	1696.6	1697.9	1719.1	1762.1	1479.0
57.5°	1125.4	1143.3	1320.9	1616.8	1727.6	1761.5	1823.1	1832.9	1865.7	1900.4	1538.5
60°	1078.8	1100.0	1265.7	1608.6	1806.2	1870.5	1940.4	1943.7	1978.9	2043.1	1619.0
62.5°	1041.6	1062.5	1230.9	1577.2	1894.6	2001.8	2055.0	2055.3	2081.6	2213.0	1710.5
65°	949.8	967.4	1160.4	1541.9	1953.0	2131.6	2188.0	2186.0	2207.5	2392.2	1816.7
67.5°	817.1	830.6	1016.5	1408.0	1931.0	2249.6	2389.0	2382.2	2356.2	2547.1	1858.4
70°	631.7	636.5	801.1	1173.5	1725.0	2295.0	2583.1	2579.6	2447.4	2519.4	1705.5
71°	522.1	538.2	706.1	1035.6	1587.2	2253.0	2601.9	2604.0	2424.4	2443.7	1600.1
72.5°	303.2	316.8	511.8	795.4	1347.5	2078.2	2504.3	2519.0	2317.4	2222.8	1366.8
75°	64.9	69.5	189.8	385.0	741.2	1456.6	1976.7	2029.2	1888.8	1512.1	823.8
77.5°	45.2	48.8	81.3	174.7	245.0	719.7	1227.9	1287.2	1128.4	568.2	263.6
80°	35.8	39.9	63.4	86.4	66.2	232.1	575.1	611.5	376.3	126.8	44.4
82.5°	19.9	23.7	49.5	46.6	25.4	44.1	161.1	182.0	75.4	25.6	10.5
85°	5.8	7.1	31.9	33.9	10.8	8.5	27.5	34.1	14.3	6.7	4.8
87.5°	0.0	0.0	15.4	13.0	3.2	1.2	2.5	2.8	2.8	2.8	3.2
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°	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1	674.1
2.5°	676.8	677.8	673.9	668.8	663.3	656.5	649.4	643.9	643.8	641.1	638.4
5°	685.1	684.4	673.6	657.1	637.6	617.4	598.1	576.3	569.1	560.1	557.2
7.5°	700.4	696.1	673.1	637.0	594.3	551.9	508.2	464.1	445.3	428.3	425.3
10°	719.7	711.4	670.2	606.9	528.6	450.4	384.4	324.4	298.0	277.8	276.9
12.5°	739.8	727.1	661.8	561.4	442.4	332.6	256.5	197.4	175.5	161.3	162.6
15°	760.9	741.9	643.9	500.1	344.3	225.7	157.5	122.9	114.1	110.5	111.4
17.5°	782.3	752.0	619.0	426.1	247.5	145.6	109.1	99.3	99.3	100.1	100.4
20°	801.0	757.5	582.2	343.2	167.8	106.1	95.4	94.0	94.8	96.0	96.2
22.5°	819.6	757.9	534.3	259.2	117.4	92.9	90.8	90.3	90.7	92.1	92.3
25°	834.6	754.1	474.4	184.4	93.7	87.6	86.6	86.4	86.6	88.3	88.3
27.5°	840.7	740.5	401.3	129.7	83.9	81.6	81.3	81.6	82.1	83.4	83.5
30°	841.4	716.5	321.6	93.8	76.1	73.6	74.2	75.4	74.9	74.5	74.9
32.5°	843.0	689.0	243.9	77.2	69.5	65.6	64.8	64.8	63.0	61.9	61.2
35°	848.1	656.5	176.9	69.4	62.8	58.2	55.2	51.8	48.2	46.3	45.8
37.5°	856.3	622.5	126.7	64.2	56.8	51.6	46.0	39.9	34.7	33.3	33.3
40°	871.2	587.2	93.7	60.1	52.1	45.6	37.2	29.2	24.5	23.7	23.7
42.5°	894.8	550.3	74.7	56.5	48.1	39.6	28.4	21.1	17.7	17.2	17.1
45°	919.2	509.5	65.3	53.0	43.6	32.5	21.1	15.6	13.7	13.2	13.2
47.5°	943.7	466.0	60.7	49.7	39.4	25.2	15.6	12.4	11.5	11.5	11.6
50°	964.4	420.6	57.5	46.1	33.9	19.2	12.4	10.5	10.2	10.8	11.0
52.5°	969.6	376.1	53.4	41.5	27.1	14.6	10.2	9.2	9.2	9.2	9.2
55°	966.4	341.5	48.1	36.0	20.1	11.6	8.8	8.2	8.0	8.0	8.0
57.5°	977.1	321.1	38.5	27.9	14.4	9.4	7.7	7.2	6.9	6.7	6.7
60°	998.6	307.8	27.5	20.1	10.8	7.8	6.6	6.1	5.7	5.3	5.3
62.5°	1027.1	296.1	20.4	14.9	8.3	6.2	5.5	5.0	4.4	4.1	4.1
65°	1049.1	275.5	15.6	11.2	6.2	5.0	4.2	4.1	3.2	2.8	2.7
67.5°	1015.6	229.9	12.6	8.2	4.8	3.9	3.3	3.2	1.9	1.6	1.6
70°	871.0	160.0	10.1	6.0	3.4	3.2	2.7	2.0	1.4	1.2	1.2
71°	789.9	133.7	9.1	5.0	3.0	3.0	2.5	1.8	1.2	1.1	1.1
72.5°	656.2	94.9	7.7	3.9	2.7	3.2	2.7	1.6	1.2	1.1	0.9
75°	380.9	39.7	5.3	2.7	2.0	3.7	3.4	1.4	0.9	0.7	0.7
77.5°	114.6	14.6	3.0	1.8	1.6	3.3	3.9	1.2	0.5	0.2	0.2
80°	20.9	6.2	1.9	1.1	1.1	2.0	3.0	0.7	0.0	0.0	0.0
82.5°	7.4	3.2	1.1	0.7	0.5	0.9	1.4	0.0	0.0	0.0	0.0
85°	4.2	2.2	0.7	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	2.8	0.7	0.0	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)