

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: P382764

Luminaire Tested: **GLEON-SA1B-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382764
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039.2 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G2

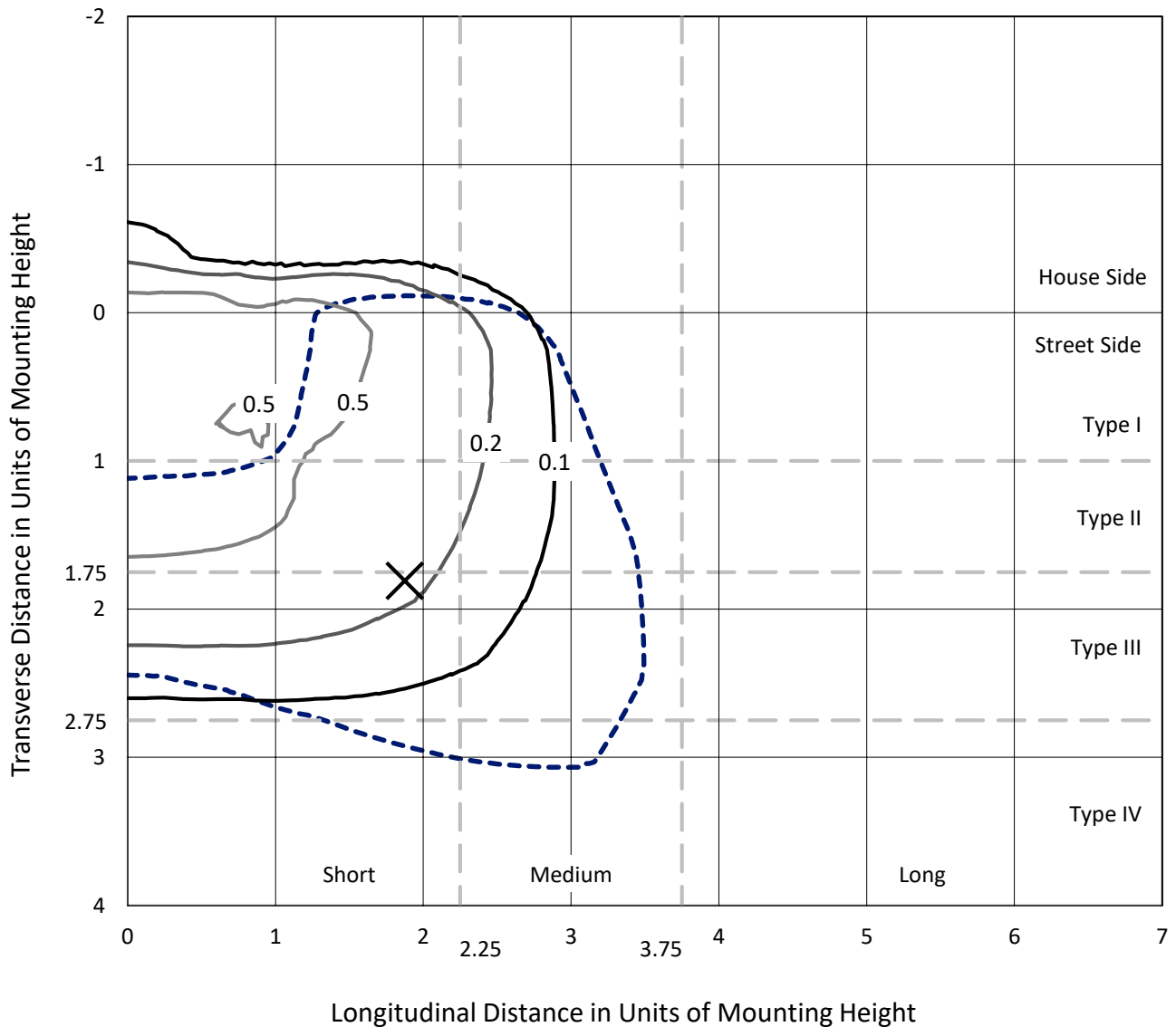
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

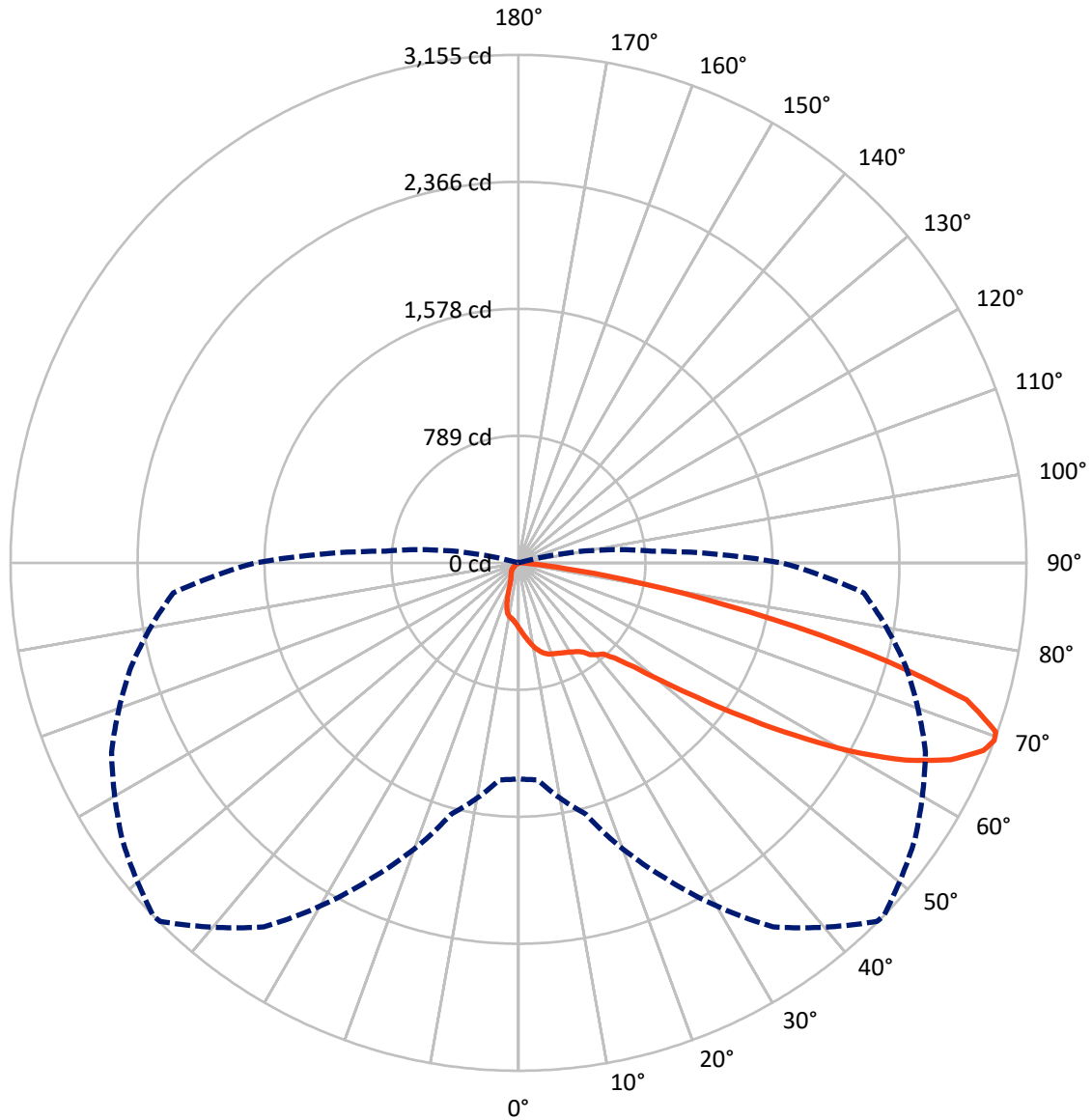
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	414.5	0.0	414.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	3624.7	0.0	3624.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	4039.2	0.0	4039.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	1.0
10°-20°	122.2	3.0
20°-30°	192.2	4.8
30°-40°	275.6	6.8
40°-50°	476.4	11.8
50°-60°	941.1	23.3
60°-70°	1315.2	32.6
70°-80°	635.4	15.7
80°-90°	40.8	1.0
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°	4039.2	100.0
0°-180°	4039.2	100.0

Coefficient of Utilization



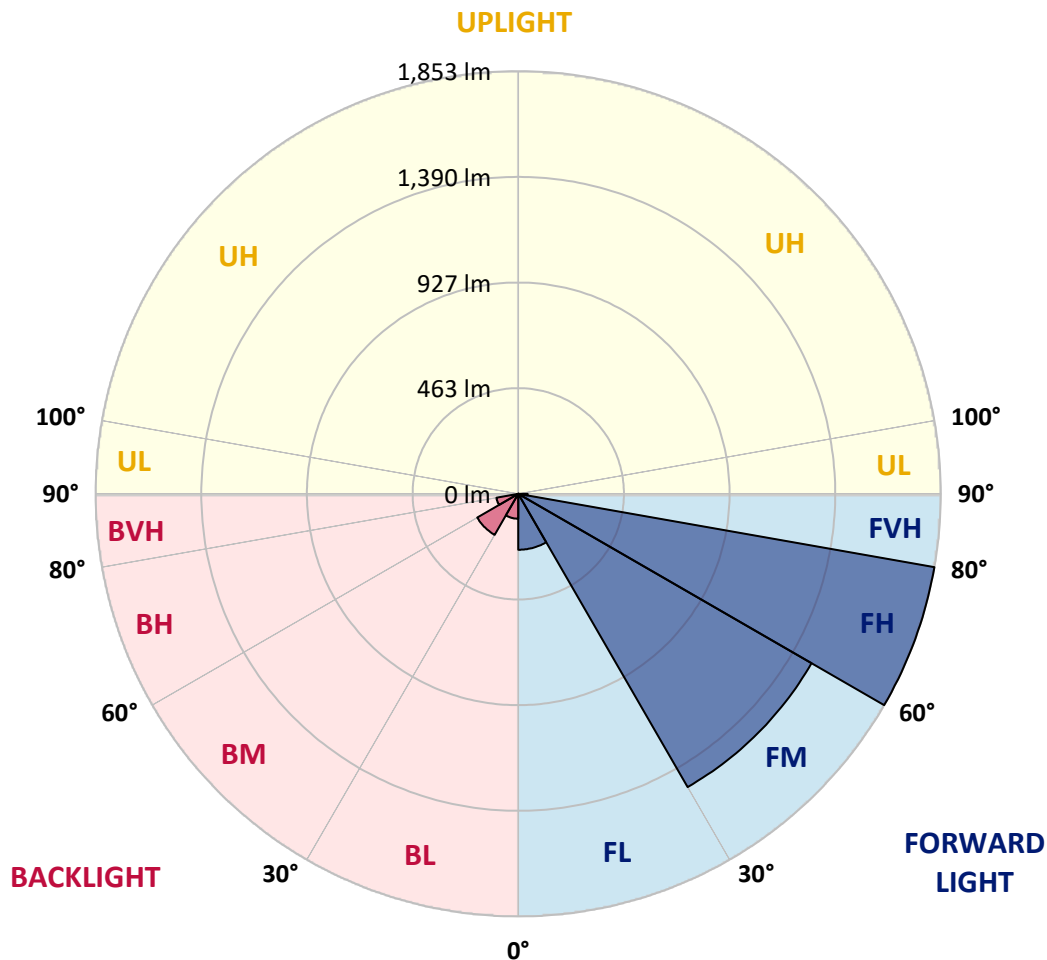
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.4	6.1			
FM (30°-60°)	1485.3	36.8			
FH (60°-80°)	1853.4	45.9			G2/5000
FVH (80°-90°)	40.5	1.0			G1/100
BL (0°-30°)	109.3	2.7	B0/110		
BM (30°-60°)	207.7	5.1	B0/220		
BH (60°-80°)	97.2	2.4	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
2.5°	449.6	449.0	446.4	445.3	438.8	435.0	433.5	428.8	422.0	415.1	407.6
5°	500.7	500.5	495.6	490.9	478.7	467.4	465.3	454.3	438.9	424.6	410.2
7.5°	553.0	550.5	545.6	536.5	518.9	500.7	499.0	483.5	461.7	440.9	420.2
10°	597.3	595.8	589.4	575.5	554.9	534.2	532.2	513.0	488.4	462.9	436.5
12.5°	631.8	630.7	622.1	604.9	583.0	561.5	558.6	541.6	515.3	486.7	455.6
15°	652.8	652.3	641.8	623.5	601.9	583.3	580.8	565.9	541.4	511.5	476.5
17.5°	657.8	658.0	647.1	628.6	610.7	597.5	595.6	584.3	563.8	534.1	497.4
20°	646.8	649.0	639.3	623.3	612.3	605.2	603.7	596.9	579.7	551.7	514.0
22.5°	631.2	632.3	625.7	614.9	610.3	611.7	610.9	607.2	592.6	566.8	530.4
25°	621.7	621.7	617.8	608.7	611.7	619.9	620.0	619.3	607.7	585.4	550.5
27.5°	621.3	620.2	615.7	608.9	617.2	629.7	630.5	635.6	628.3	607.9	575.5
30°	636.5	635.2	625.5	616.6	627.2	640.7	642.6	653.8	650.1	632.3	603.4
32.5°	671.9	667.2	645.8	631.2	639.1	655.3	657.8	675.6	681.2	662.4	630.3
35°	720.5	705.5	674.6	658.9	659.6	676.5	678.7	704.9	721.8	690.1	651.1
37.5°	787.3	779.9	729.7	687.7	691.0	716.6	723.3	751.7	746.9	705.3	674.8
40°	933.9	922.3	868.9	768.3	721.2	749.2	751.3	766.5	766.8	739.6	724.0
42.5°	1133.4	1128.8	1072.5	914.7	780.5	770.9	774.8	800.3	828.9	811.8	811.1
45°	1354.5	1352.0	1292.3	1109.0	900.3	842.4	847.1	881.4	936.1	939.9	964.0
47.5°	1532.3	1531.2	1496.9	1325.9	1083.9	963.4	964.9	1001.2	1097.5	1145.0	1183.4
50°	1694.4	1699.9	1672.8	1560.5	1333.8	1153.0	1149.3	1173.6	1328.1	1406.0	1453.7
52.5°	1919.7	1927.6	1851.6	1779.4	1596.1	1388.2	1385.3	1410.7	1605.4	1663.7	1672.2
55°	2118.8	2105.6	2045.5	2024.7	1916.0	1678.6	1677.9	1700.3	1873.5	1898.4	1914.1
57.5°	2206.6	2201.6	2230.6	2278.3	2251.0	2022.0	2020.3	2003.3	2113.5	2116.2	2164.5
60°	2262.2	2268.4	2357.3	2504.4	2572.4	2391.6	2380.6	2276.6	2342.7	2336.8	2388.5
62.5°	2220.5	2232.8	2392.7	2638.0	2812.9	2714.1	2698.5	2526.9	2538.5	2518.3	2566.3
65°	1999.3	2018.5	2280.3	2612.7	2932.2	2966.1	2950.4	2748.0	2693.9	2660.7	2634.0
67.5°	1623.4	1634.8	1908.2	2393.6	2878.4	3116.5	3113.2	2941.7	2811.4	2636.6	2429.4
69°	1341.6	1352.8	1616.0	2163.0	2760.1	3148.7	3155.0	3003.8	2789.1	2490.4	2152.5
70°	1136.3	1148.2	1393.5	1965.2	2622.8	3133.7	3144.9	2997.9	2725.1	2321.0	1909.6
72.5°	596.0	606.3	857.9	1353.9	2138.2	2877.5	2911.4	2744.5	2309.9	1685.7	1129.1
75°	187.3	193.2	335.0	707.7	1463.9	2237.4	2245.1	2152.9	1640.3	927.3	470.2
77.5°	71.4	69.7	111.5	260.7	740.1	1408.8	1456.4	1345.3	860.7	327.8	108.5
80°	38.5	38.7	57.9	108.0	316.6	724.0	764.1	652.1	305.8	102.3	25.0
82.5°	16.7	17.4	32.6	57.2	145.4	267.1	287.1	239.0	116.8	68.7	9.3
85°	3.6	4.0	15.7	31.0	59.2	75.0	78.6	77.4	74.4	53.4	3.6
87.5°	0.0	0.0	7.0	11.2	15.0	17.0	15.0	19.5	41.1	36.0	1.9
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°	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8	404.8
2.5°	405.1	401.7	395.8	389.4	384.8	380.1	376.3	374.6	372.7	371.4	373.1
5°	404.3	397.7	386.3	375.3	367.4	361.0	355.7	353.6	351.5	350.0	349.8
7.5°	411.0	401.7	384.3	368.1	355.9	347.1	339.9	336.9	334.4	333.3	332.4
10°	423.7	411.7	388.5	367.4	351.5	336.8	321.2	309.3	301.5	297.9	296.6
12.5°	440.2	425.2	396.4	371.4	348.3	319.9	286.9	258.5	240.2	234.1	230.5
15°	459.4	440.9	406.8	376.5	336.6	284.7	228.8	191.6	174.6	171.2	167.4
17.5°	478.0	457.6	419.3	377.5	310.8	227.5	167.6	142.4	135.8	138.1	138.6
20°	494.3	474.1	431.6	369.1	264.0	170.7	129.8	123.5	125.9	130.3	131.1
22.5°	510.8	489.9	443.0	347.1	204.2	129.6	116.8	118.4	120.8	125.2	125.9
25°	530.8	509.3	453.6	306.8	153.2	110.2	110.9	113.3	115.7	119.7	120.1
27.5°	554.0	533.7	460.6	254.3	113.6	101.4	103.8	107.2	109.6	113.5	114.2
30°	584.6	565.9	462.9	200.0	95.3	93.3	94.5	98.7	102.3	105.6	106.3
32.5°	613.4	597.7	455.2	150.9	88.2	86.0	86.0	88.4	92.6	95.9	96.6
35°	639.9	629.7	431.0	110.4	82.9	79.2	77.2	77.2	79.9	82.5	83.4
37.5°	675.0	674.6	391.8	88.0	77.9	73.5	69.5	66.5	65.5	66.1	66.5
40°	735.0	735.5	340.7	79.0	73.5	67.6	61.6	56.1	51.0	49.3	49.1
42.5°	828.7	820.2	287.1	74.6	69.7	61.6	52.4	45.1	37.1	34.7	34.5
45°	977.6	927.1	230.3	70.6	65.7	54.8	43.4	33.3	26.9	25.0	25.0
47.5°	1194.4	1067.4	178.4	66.3	60.5	46.9	32.8	24.0	19.7	18.7	18.9
50°	1418.7	1204.9	136.8	60.8	53.9	38.8	24.2	17.4	15.0	15.0	15.2
52.5°	1617.5	1305.6	106.7	55.0	46.0	30.5	18.4	13.6	12.5	12.3	12.5
55°	1803.7	1370.6	81.6	48.1	36.5	22.7	14.0	11.2	10.4	10.1	9.9
57.5°	1983.3	1402.7	61.2	38.8	26.5	16.5	11.2	9.5	8.8	8.1	7.9
60°	2102.7	1376.6	42.0	28.6	18.4	11.9	9.3	8.1	7.2	6.6	6.4
62.5°	2170.1	1305.2	27.1	20.7	13.0	8.9	7.4	6.8	5.5	4.9	4.9
65°	2142.8	1187.4	18.9	14.8	9.5	6.6	5.5	5.5	4.0	3.3	3.1
67.5°	1899.0	1003.2	14.4	11.0	6.8	4.9	4.2	4.8	2.4	1.5	1.5
69°	1633.8	831.4	12.3	9.1	5.7	4.0	3.6	4.4	1.7	1.1	0.9
70°	1420.0	717.2	11.2	7.9	4.8	3.4	3.3	4.2	1.7	0.9	0.7
72.5°	849.6	400.0	8.5	5.7	3.1	2.6	2.6	4.8	1.7	0.9	0.7
75°	343.4	140.9	6.2	4.0	2.2	2.2	3.3	6.1	1.5	0.7	0.6
77.5°	77.9	30.8	3.6	2.4	1.5	2.2	3.8	4.8	0.9	0.4	0.0
80°	18.9	7.5	2.2	1.5	0.9	1.7	2.8	2.6	0.2	0.0	0.0
82.5°	6.2	2.6	0.9	0.7	0.2	0.6	1.3	0.7	0.0	0.0	0.0
85°	2.6	1.5	0.4	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.0
87.5°	1.7	0.6	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)