

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: P382756

Luminaire Tested: **GLEON-SA1B-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382756
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-SA1B-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA 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: 4499.4 lumens
Efficiency: N/A
Efficacy: 102.3 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

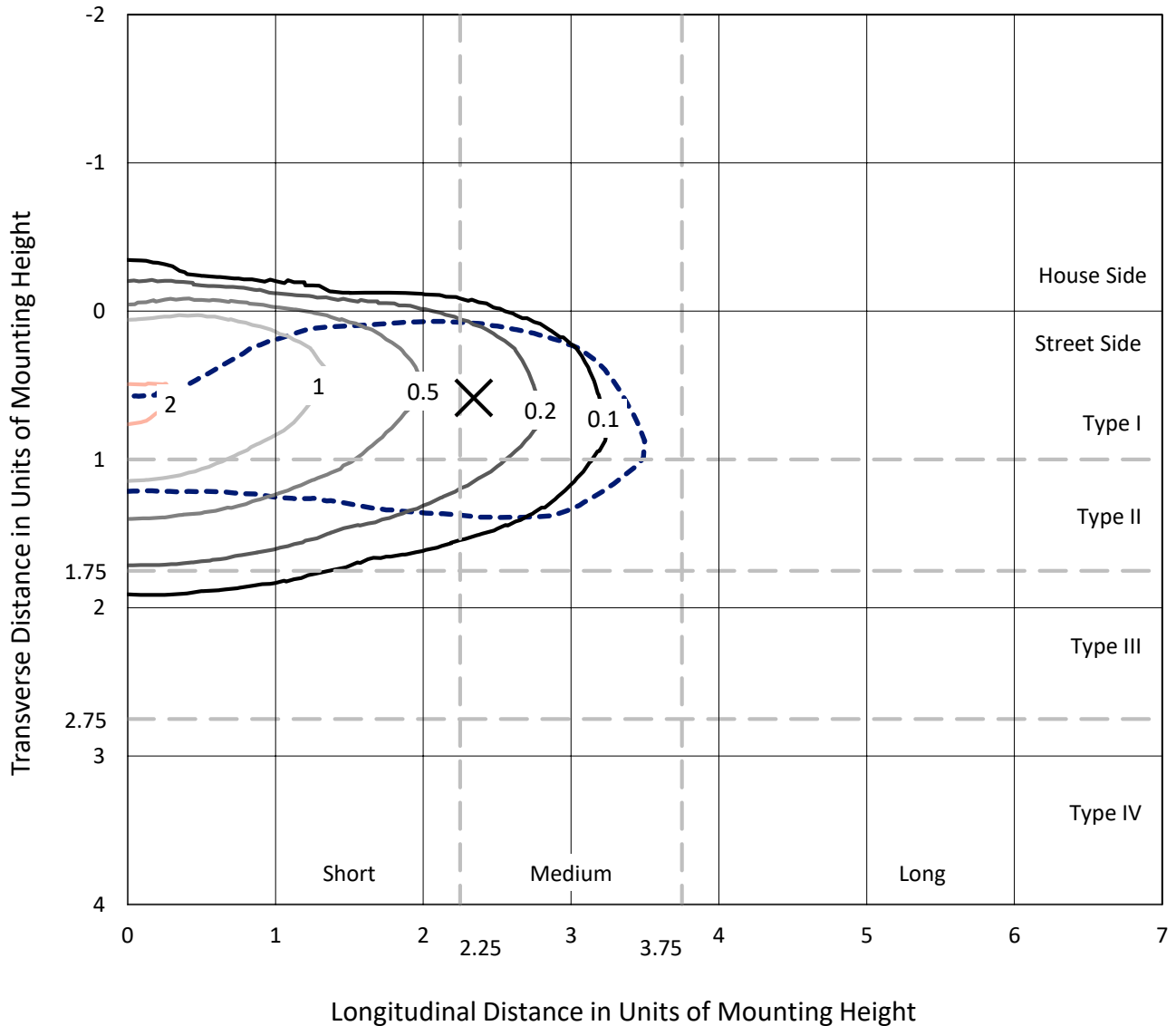
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

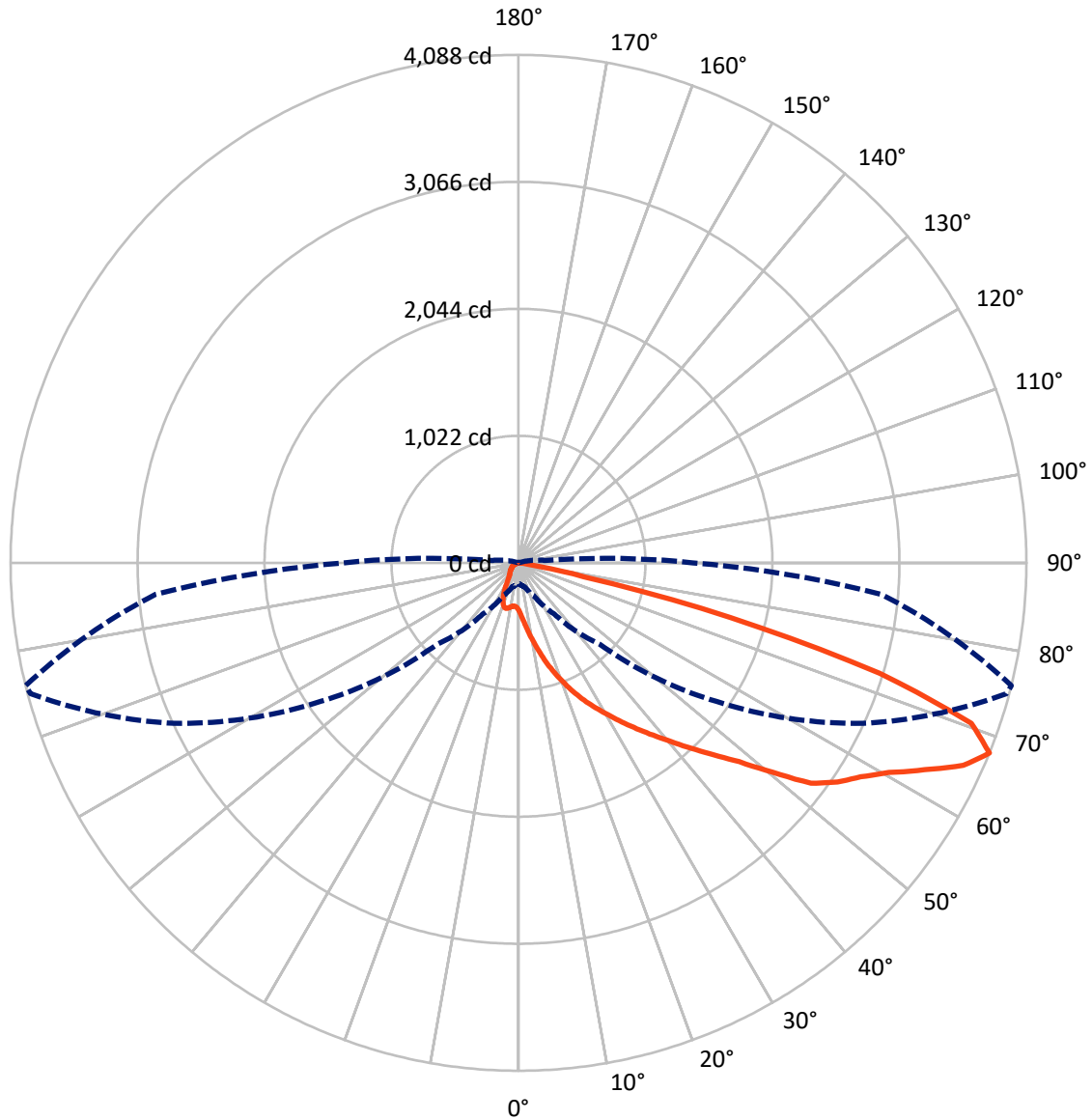
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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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	223.4	0.0	223.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4276.0	0.0	4276.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	4499.4	0.0	4499.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	1.1
10°-20°	188.1	4.2
20°-30°	382.8	8.5
30°-40°	664.4	14.8
40°-50°	938.8	20.9
50°-60°	1064.6	23.7
60°-70°	883.0	19.6
70°-80°	319.8	7.1
80°-90°	10.4	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°	4499.4	100.0
0°-180°	4499.4	100.0

Coefficient of Utilization

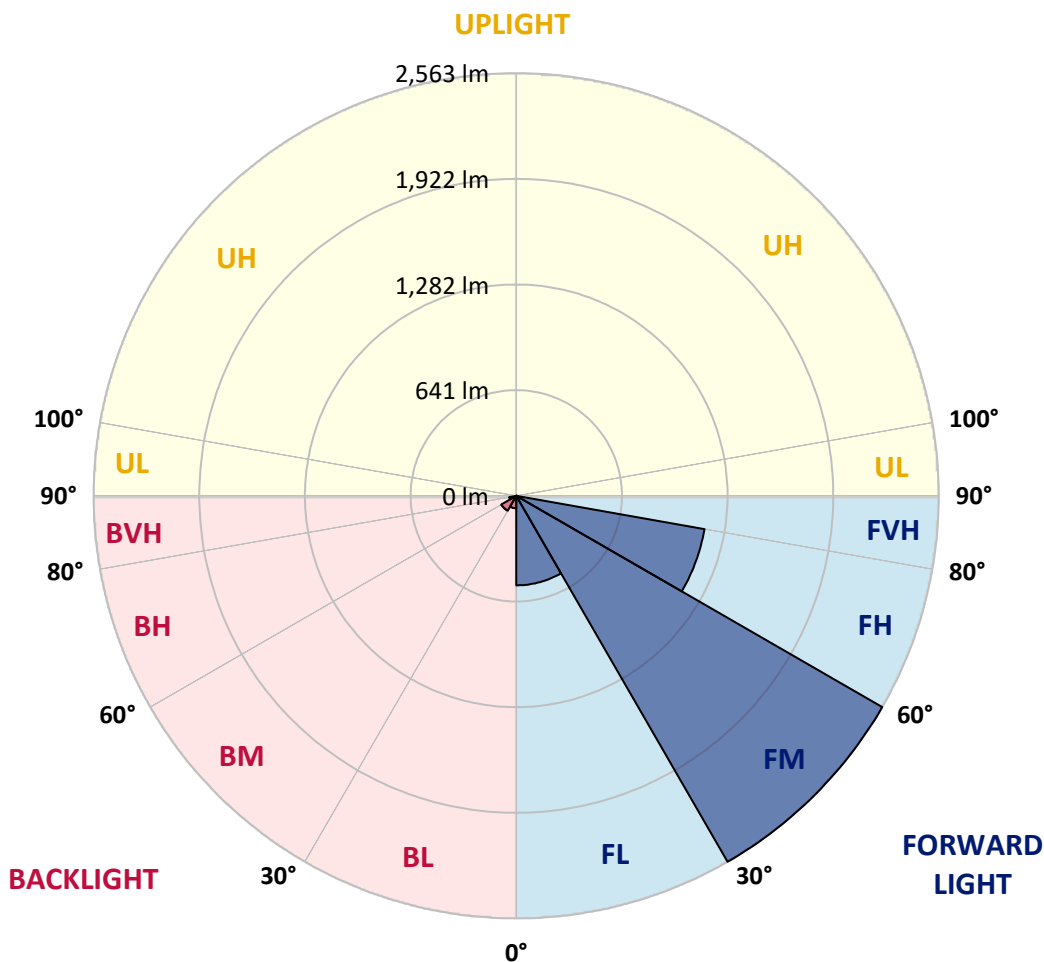


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	543.1	12.1			
FM (30°-60°)	2563.2	57.0			
FH (60°-80°)	1159.6	25.8			G1/1800
FVH (80°-90°)	10.0	0.2			G1/100
BL (0°-30°)	75.3	1.7	B0/110		
BM (30°-60°)	104.6	2.3	B0/220		
BH (60°-80°)	43.2	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7
2.5°	569.7	557.0	559.9	551.7	536.7	505.9	479.7	454.8	425.8	424.9	401.0
5°	768.2	757.4	756.0	739.3	712.1	659.8	609.0	551.0	486.4	481.6	430.9
7.5°	948.5	939.8	936.7	916.7	866.1	815.2	749.0	663.8	562.7	554.0	471.4
10°	1086.8	1082.7	1083.5	1069.3	1025.9	978.7	891.7	783.1	649.2	635.8	519.9
12.5°	1191.7	1192.8	1199.8	1191.2	1166.9	1131.8	1039.0	910.2	745.1	726.7	575.2
15°	1268.9	1273.8	1286.7	1297.6	1295.9	1265.5	1180.4	1039.3	846.8	826.5	637.0
17.5°	1318.7	1324.2	1343.2	1367.2	1389.3	1382.2	1316.7	1164.0	949.6	926.2	703.0
20°	1362.5	1369.0	1389.3	1421.1	1462.3	1471.1	1428.2	1284.8	1052.4	1023.8	771.2
22.5°	1457.3	1457.1	1469.5	1488.1	1527.3	1550.2	1523.0	1396.9	1153.9	1124.1	840.8
25°	1628.8	1622.3	1618.0	1603.4	1612.0	1626.3	1611.1	1501.8	1256.0	1225.8	911.4
27.5°	1832.7	1836.6	1801.5	1762.3	1731.9	1717.3	1692.5	1599.1	1354.2	1321.1	980.5
30°	2047.7	2048.9	2007.6	1957.5	1890.7	1835.2	1792.3	1691.9	1455.2	1419.0	1047.4
32.5°	2241.8	2234.0	2193.0	2124.9	2040.5	1978.1	1888.9	1795.7	1562.0	1527.1	1122.0
35°	2395.6	2386.4	2336.6	2274.5	2187.0	2124.3	2016.8	1899.1	1674.4	1640.3	1196.7
37.5°	2507.9	2497.3	2446.0	2382.2	2306.6	2270.2	2165.3	2011.7	1797.0	1760.3	1275.4
40°	2546.9	2537.7	2505.6	2458.8	2398.1	2389.8	2322.8	2141.3	1930.4	1891.4	1364.4
42.5°	2523.7	2514.6	2503.2	2487.4	2462.2	2470.1	2471.4	2288.9	2078.7	2040.3	1462.8
45°	2431.4	2423.3	2435.2	2458.3	2489.6	2528.6	2607.1	2447.5	2244.3	2203.3	1576.6
47.5°	2295.6	2289.7	2322.4	2379.9	2471.7	2579.3	2731.1	2614.4	2430.2	2392.2	1718.5
50°	2102.4	2101.4	2166.9	2272.0	2412.9	2603.8	2859.2	2804.1	2688.5	2648.5	1915.9
52.5°	1801.5	1803.5	1932.2	2100.5	2309.8	2587.2	2941.6	3047.7	2989.0	2947.3	2086.8
55°	1515.1	1526.9	1618.2	1860.7	2151.7	2525.6	2970.1	3161.5	3154.8	3115.3	2181.9
57.5°	1234.6	1256.0	1343.9	1570.5	1920.9	2383.9	2954.5	3210.8	3278.2	3248.0	2307.3
60°	930.5	940.4	1041.7	1253.5	1624.5	2125.2	2841.5	3237.6	3446.9	3426.0	2489.2
62.5°	592.0	616.7	706.6	910.9	1264.9	1766.0	2651.0	3237.1	3658.1	3669.5	2724.0
65°	311.9	340.7	388.4	564.4	869.2	1364.8	2364.5	3206.8	3917.2	3933.1	2907.5
67.5°	168.1	176.4	201.7	293.0	504.1	924.7	1943.7	3057.0	4067.1	4088.3	2933.2
70°	123.1	127.5	137.0	162.1	253.8	537.0	1418.3	2717.3	3873.7	3865.8	2606.1
72.5°	94.5	101.5	108.6	118.7	145.9	286.6	883.0	2127.8	3090.9	3038.8	1948.1
75°	74.5	75.7	85.8	94.8	109.5	163.2	392.1	1239.2	1886.5	1763.3	1010.2
77.5°	59.5	60.4	66.2	74.2	87.9	107.2	121.5	487.6	602.2	537.4	219.2
80°	35.3	37.3	49.3	57.2	72.9	67.6	44.3	105.8	94.0	85.1	36.9
82.5°	19.7	21.3	27.8	45.2	50.9	32.3	22.1	28.6	22.1	21.5	10.4
85°	0.0	1.0	18.0	28.0	20.7	7.1	9.2	9.5	6.5	6.1	4.1
87.5°	0.0	0.0	5.5	5.3	0.7	1.2	2.1	3.2	2.6	2.6	2.1
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°	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7	381.7
2.5°	389.2	378.5	358.5	338.7	322.1	308.5	296.3	291.4	287.5	286.8	283.7
5°	406.5	385.0	346.6	315.0	293.9	279.0	266.1	258.2	252.2	249.7	247.6
7.5°	432.7	400.2	345.0	308.7	283.5	258.2	234.6	208.9	193.0	186.9	183.3
10°	464.7	420.3	350.9	306.9	262.8	209.6	170.4	137.8	124.6	120.3	119.1
12.5°	501.9	445.4	361.2	296.0	218.6	148.9	117.5	106.5	103.5	102.1	102.1
15°	544.7	472.8	368.4	264.0	161.6	112.5	101.7	96.6	93.4	91.7	91.9
17.5°	588.5	499.6	364.9	217.6	119.2	100.1	92.0	86.5	82.3	80.4	80.0
20°	632.6	524.4	345.2	162.1	101.0	90.9	81.8	75.7	71.4	69.6	69.2
22.5°	678.4	545.5	310.5	118.9	90.7	80.7	71.7	65.7	61.5	59.9	59.2
25°	723.0	562.7	262.0	96.2	81.0	71.0	62.5	56.8	53.0	51.4	51.2
27.5°	764.5	573.5	205.8	85.0	72.6	62.3	54.6	49.5	46.3	45.2	45.0
30°	802.0	574.5	152.2	76.7	65.0	54.8	47.7	43.1	40.4	39.2	38.8
32.5°	839.9	566.2	110.8	69.2	58.1	48.3	41.4	37.8	35.9	34.9	34.9
35°	875.6	547.1	86.4	62.7	51.4	42.0	36.5	33.9	32.7	31.8	31.8
37.5°	910.4	519.7	73.3	57.0	45.2	36.7	32.1	30.6	29.5	28.6	28.6
40°	945.9	485.1	66.6	51.6	40.1	32.5	28.6	27.2	26.2	25.4	25.2
42.5°	989.5	445.4	62.3	46.8	35.5	28.8	25.2	23.7	22.8	22.1	21.7
45°	1040.0	411.1	58.8	41.8	31.8	25.6	21.9	20.3	19.1	18.2	18.0
47.5°	1112.7	386.2	54.0	36.5	28.2	22.3	18.9	17.1	15.4	14.3	14.2
50°	1205.5	365.7	47.9	31.8	24.7	18.9	15.7	13.6	12.0	11.1	11.1
52.5°	1251.7	338.9	42.4	27.6	20.7	15.9	12.9	10.2	9.5	8.5	8.5
55°	1270.3	318.4	36.9	23.5	17.1	13.2	10.1	7.9	7.3	6.7	6.5
57.5°	1322.2	312.4	32.1	19.9	14.2	10.4	7.7	5.9	5.5	4.8	4.8
60°	1406.1	315.4	27.8	17.0	11.5	8.1	5.7	4.6	4.1	3.4	3.4
62.5°	1496.5	311.7	23.5	14.6	8.8	5.9	3.9	3.4	3.4	2.0	1.8
65°	1513.9	277.6	20.1	12.0	6.9	4.4	2.6	2.1	3.0	0.4	0.0
67.5°	1405.1	215.3	17.3	9.2	5.1	3.4	2.0	1.0	2.6	0.0	0.0
70°	1123.5	136.8	14.0	6.7	3.9	2.8	1.6	0.4	2.0	0.0	0.0
72.5°	794.5	79.5	11.1	4.8	3.4	2.1	1.2	0.0	1.2	0.0	0.0
75°	401.8	42.4	6.9	3.5	2.6	1.6	0.7	0.0	0.2	0.0	0.0
77.5°	86.9	19.7	4.4	2.6	1.8	1.0	0.4	0.0	0.0	0.0	0.0
80°	18.9	8.7	2.8	1.6	1.0	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	4.6	1.4	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.3	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.7	0.2	0.2	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)