

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: P382790

Luminaire Tested: **GLEON-SA1C-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA1C-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4899.9 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

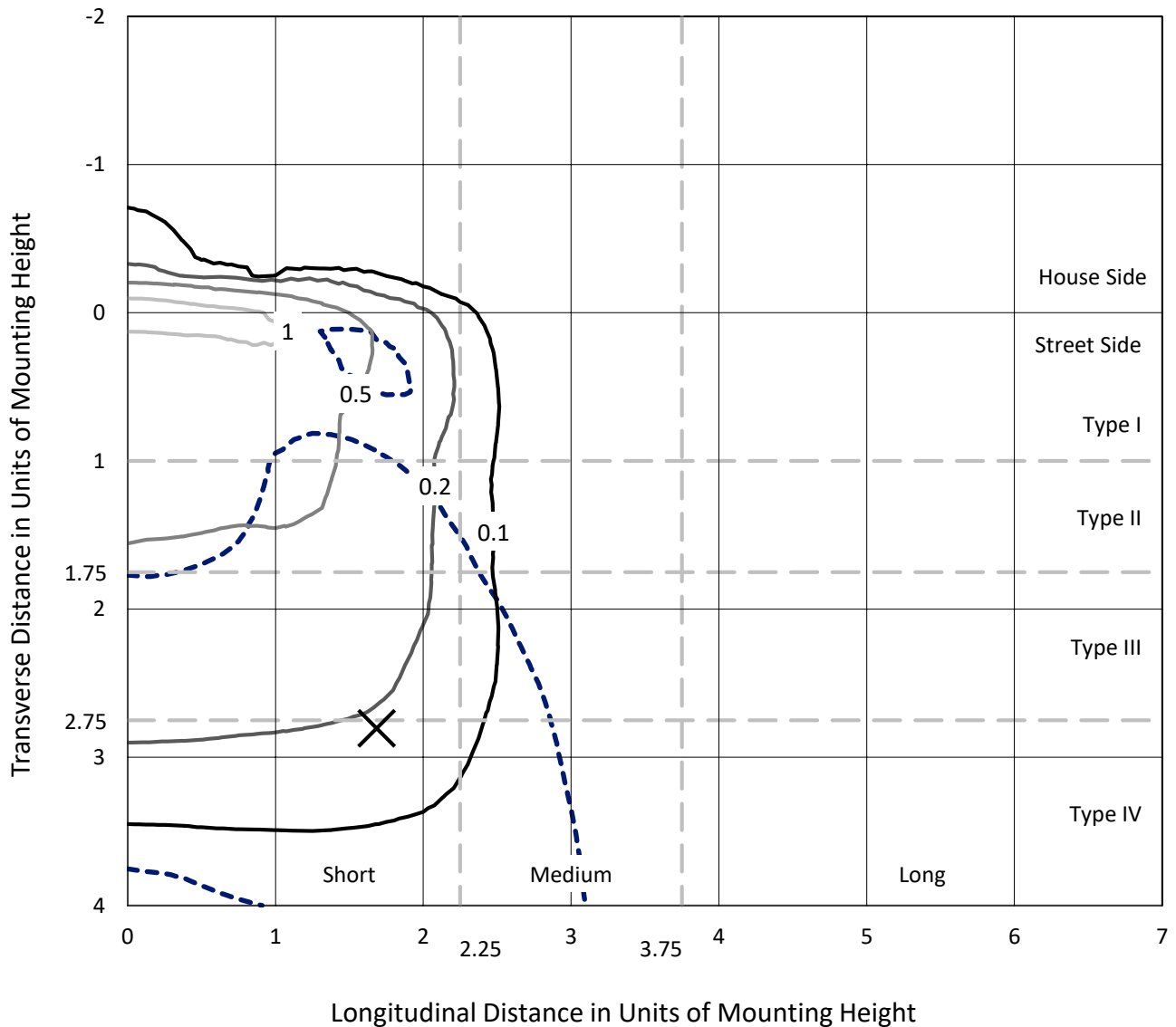
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

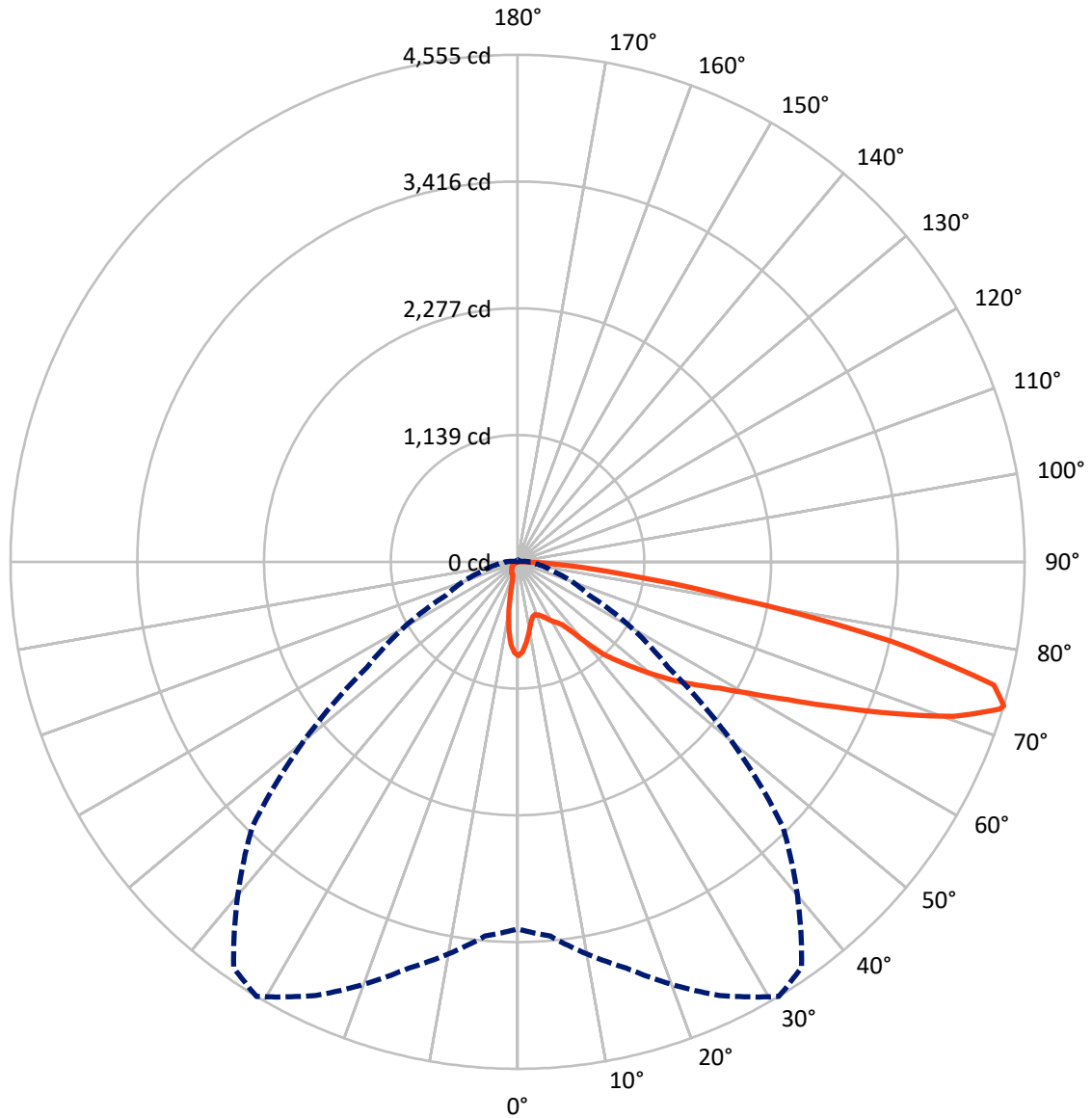
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	446.7	0.0	446.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4453.3	0.0	4453.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	4899.9	0.0	4899.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	1.4
10°-20°	151.8	3.1
20°-30°	227.4	4.6
30°-40°	361.8	7.4
40°-50°	646.1	13.2
50°-60°	1002.5	20.5
60°-70°	1332.7	27.2
70°-80°	1002.5	20.5
80°-90°	105.3	2.1
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°	4899.9	100.0
0°-180°	4899.9	100.0

Coefficient of Utilization

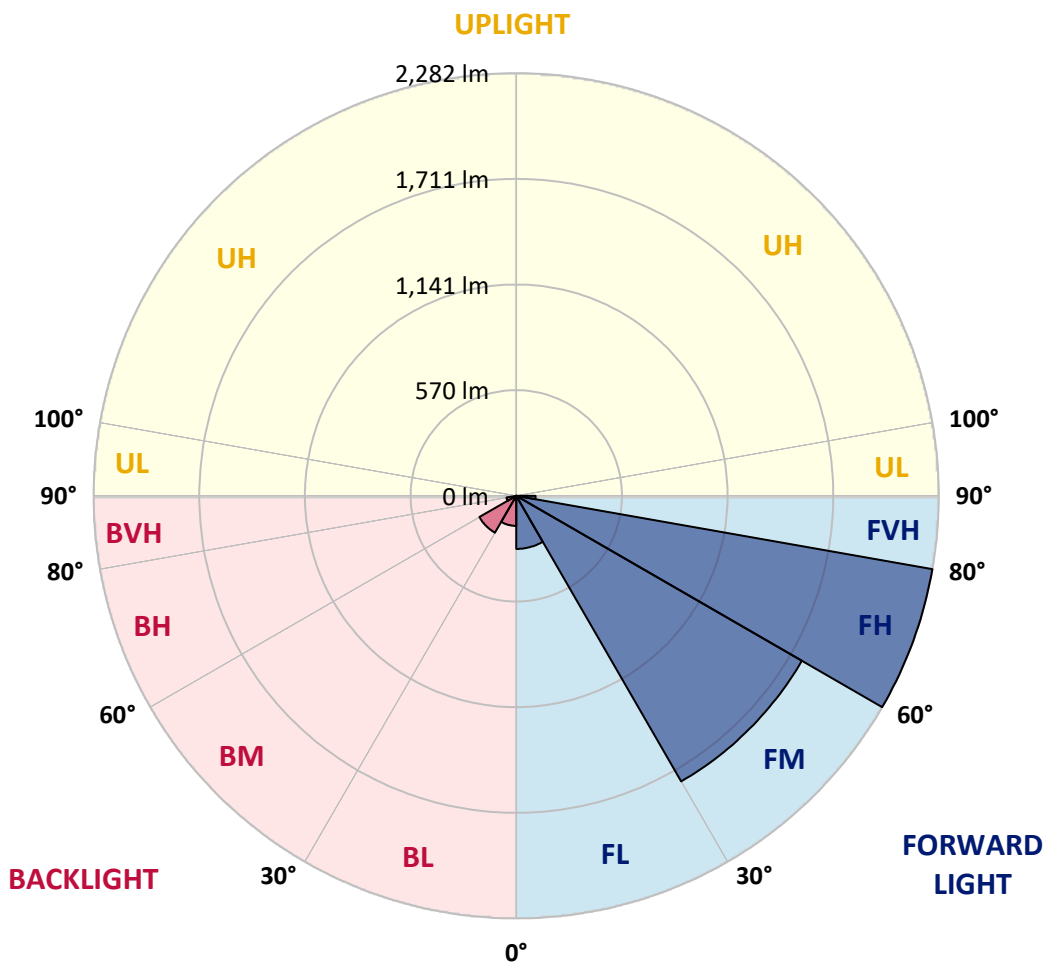


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.7	5.9			
FM (30°-60°)	1780.5	36.3			
FH (60°-80°)	2281.7	46.6			G2/5000
FVH (80°-90°)	104.5	2.1			G2/225
BL (0°-30°)	162.4	3.3	B1/500		
BM (30°-60°)	229.9	4.7	B1/1000		
BH (60°-80°)	53.4	1.1	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1
2.5°	798.9	802.2	805.9	806.6	812.6	812.9	821.4	828.0	834.4	840.6	842.8
5°	716.9	722.4	728.9	735.4	748.1	753.2	774.2	795.8	816.4	836.1	845.7
7.5°	629.4	635.6	644.7	660.8	675.0	684.8	718.1	756.5	794.9	831.0	851.9
10°	549.5	555.3	564.9	581.9	603.7	617.2	662.1	715.2	771.6	826.5	861.3
12.5°	498.8	501.8	507.1	525.3	545.0	560.1	612.9	678.8	752.4	826.3	876.4
15°	489.3	490.4	486.0	494.2	509.6	524.2	577.7	649.3	737.8	830.1	896.1
17.5°	504.2	503.8	489.3	488.4	500.6	512.6	560.3	628.9	727.4	839.0	921.5
20°	526.8	525.1	500.1	495.6	508.5	519.8	559.1	621.2	723.6	853.9	952.4
22.5°	556.8	553.9	514.8	510.0	523.9	535.6	574.0	628.7	727.0	873.7	988.4
25°	594.0	589.6	539.9	534.7	548.9	560.6	600.7	650.0	737.0	897.9	1033.9
27.5°	635.9	629.6	580.3	566.6	582.7	594.9	636.2	682.6	752.9	923.6	1089.8
30°	675.5	667.3	622.6	600.2	619.9	633.5	674.4	721.5	778.3	963.1	1166.3
32.5°	715.2	706.1	660.6	633.7	651.4	666.3	714.0	775.0	826.0	1023.6	1267.9
35°	806.8	797.2	741.4	697.0	696.8	705.2	769.5	848.1	889.1	1107.8	1389.2
37.5°	961.0	955.5	902.3	818.1	795.5	786.2	845.0	935.4	979.7	1223.6	1526.2
40°	1129.8	1125.0	1065.3	989.0	954.7	931.7	953.3	1056.9	1107.8	1365.0	1666.0
42.5°	1320.5	1297.6	1191.2	1168.4	1137.7	1120.2	1100.8	1206.8	1265.0	1519.0	1804.5
45°	1493.6	1455.2	1317.1	1282.6	1275.6	1279.9	1290.7	1408.2	1442.0	1701.9	1942.6
47.5°	1596.7	1566.4	1460.5	1427.4	1425.5	1454.0	1535.5	1635.7	1618.2	1861.3	2064.2
50°	1694.8	1667.4	1579.3	1587.5	1596.4	1635.2	1813.4	1869.8	1779.2	2005.9	2175.7
52.5°	1774.1	1732.4	1686.3	1732.1	1775.8	1838.3	2100.2	2079.8	1893.3	2121.0	2271.1
55°	1819.9	1801.0	1823.2	1869.2	1951.3	2052.9	2370.9	2254.6	1976.7	2226.0	2334.6
57.5°	1987.7	1950.6	1994.9	2034.7	2141.6	2283.9	2602.7	2384.8	2036.9	2291.0	2349.3
60°	2190.8	2160.8	2187.0	2253.1	2397.5	2564.6	2819.5	2491.1	2068.3	2332.8	2311.4
62.5°	2514.1	2474.5	2458.2	2532.2	2723.6	2906.1	2984.0	2564.6	2061.3	2314.3	2181.5
65°	2947.0	2906.1	2833.2	2900.3	3143.7	3272.4	3167.9	2580.2	2013.4	2164.9	1852.9
67.5°	3390.6	3360.9	3298.6	3411.7	3631.4	3672.8	3362.3	2542.3	1859.0	1755.4	1309.2
70°	3683.6	3670.9	3711.5	3961.8	4157.7	4145.7	3540.7	2338.7	1448.9	1079.5	647.6
72.5°	3472.4	3533.3	3832.6	4286.4	4525.7	4427.9	3449.1	1795.9	828.1	415.3	187.2
73°	3297.4	3375.3	3778.1	4298.6	4554.7	4447.6	3372.2	1648.5	705.9	327.8	142.0
75°	2293.9	2389.6	3127.9	4003.5	4419.1	4237.5	2810.9	1009.0	327.1	145.3	57.3
77.5°	1113.8	1184.5	1722.3	2892.6	3436.7	3310.8	1749.9	376.0	147.7	90.9	26.4
80°	415.7	462.3	747.7	1472.2	1986.1	2038.0	769.6	142.2	98.3	73.1	13.4
82.5°	108.9	121.3	275.7	656.5	1017.8	1065.3	242.7	71.7	71.9	60.2	8.2
85°	34.7	39.8	86.1	294.6	479.6	421.1	63.3	34.7	52.3	44.8	4.6
87.5°	4.3	5.5	27.3	69.3	105.7	58.8	9.9	10.3	22.3	25.0	2.6
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°	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1	843.1
2.5°	845.0	843.8	844.0	837.7	833.7	825.5	817.2	813.3	809.2	807.6	809.2
5°	849.3	847.1	840.9	821.7	801.3	775.0	750.3	731.5	708.1	701.5	708.3
7.5°	856.0	851.7	833.5	794.3	749.1	698.7	642.1	600.8	567.0	545.2	553.2
10°	865.8	857.7	821.0	754.6	673.5	584.4	504.0	441.5	397.0	378.9	378.1
12.5°	882.4	867.0	805.6	702.8	581.2	462.3	357.1	289.2	253.2	229.9	229.4
15°	900.6	878.1	786.2	640.7	473.8	331.2	229.9	178.4	155.1	147.7	146.7
17.5°	922.9	890.7	761.1	564.1	361.3	219.4	150.1	135.3	134.2	133.6	133.6
20°	950.9	905.8	728.7	476.7	256.4	146.5	127.5	128.6	129.0	128.0	128.3
22.5°	983.5	921.2	690.1	382.7	173.4	122.5	122.0	123.2	123.7	123.2	123.5
25°	1021.4	939.0	643.0	284.1	125.2	116.3	117.5	119.1	120.4	120.4	120.4
27.5°	1068.4	960.5	586.5	198.3	108.2	109.8	113.2	116.3	117.9	118.5	118.5
30°	1129.6	987.3	518.6	135.9	98.3	101.2	107.4	113.4	116.5	117.0	117.3
32.5°	1206.8	1017.6	440.0	100.4	89.9	92.0	98.7	108.9	114.9	115.8	115.8
35°	1295.2	1052.6	355.4	87.5	83.9	84.7	89.9	101.4	112.0	114.6	114.9
37.5°	1392.1	1087.1	270.2	81.8	78.9	78.9	82.7	92.6	105.0	113.2	114.1
40°	1482.6	1108.0	189.4	77.2	74.3	74.3	77.7	84.9	96.6	108.9	111.5
42.5°	1565.9	1115.2	131.9	72.8	70.1	70.7	73.6	79.4	88.2	100.4	102.8
45°	1651.8	1113.9	96.1	67.8	65.7	67.8	70.1	74.3	80.8	87.8	88.2
47.5°	1716.6	1103.9	76.3	63.1	61.7	64.5	66.4	69.3	72.8	72.4	72.4
50°	1777.2	1079.5	61.4	56.5	57.6	60.9	61.9	62.8	63.1	58.5	58.0
52.5°	1823.2	1041.4	49.2	49.7	53.5	56.8	55.9	54.4	52.1	46.5	45.6
55°	1838.6	968.0	38.6	41.0	47.5	51.8	48.2	45.1	40.5	36.0	35.0
57.5°	1810.7	873.2	31.4	31.9	40.1	43.6	39.6	36.0	30.9	27.1	26.4
60°	1751.8	768.0	25.9	23.9	30.9	34.0	31.4	27.9	23.3	20.4	20.1
62.5°	1634.8	655.8	21.3	18.7	23.5	26.2	24.5	21.8	18.0	16.0	15.8
65°	1388.8	524.6	17.2	15.1	18.3	20.4	18.9	17.0	14.2	12.7	12.5
67.5°	969.4	354.6	14.2	12.5	14.3	16.0	14.9	13.9	11.3	11.0	11.3
70°	467.5	170.9	11.7	10.1	11.3	12.5	12.0	11.3	10.8	12.5	14.3
72.5°	134.0	57.3	9.3	8.4	9.1	9.9	10.3	10.1	11.7	15.1	17.5
73°	103.1	46.3	8.8	7.9	8.7	9.6	10.1	9.9	12.0	15.4	17.5
75°	44.2	22.3	6.7	6.4	7.2	8.4	8.8	8.8	12.0	15.6	16.8
77.5°	19.9	12.0	4.3	5.0	6.2	6.7	7.5	7.5	9.6	12.0	12.0
80°	11.3	6.4	3.4	3.8	4.6	4.6	4.6	4.1	4.3	4.8	5.3
82.5°	7.2	4.3	2.6	3.1	2.9	2.4	2.0	2.0	1.7	2.0	2.4
85°	4.1	2.4	2.4	2.0	1.2	0.9	1.2	0.9	0.3	0.0	0.3
87.5°	2.4	1.4	0.7	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)