

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: P382928

Luminaire Tested: **GLEON-SA2D-735-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382928
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-SA2D-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11374.2 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

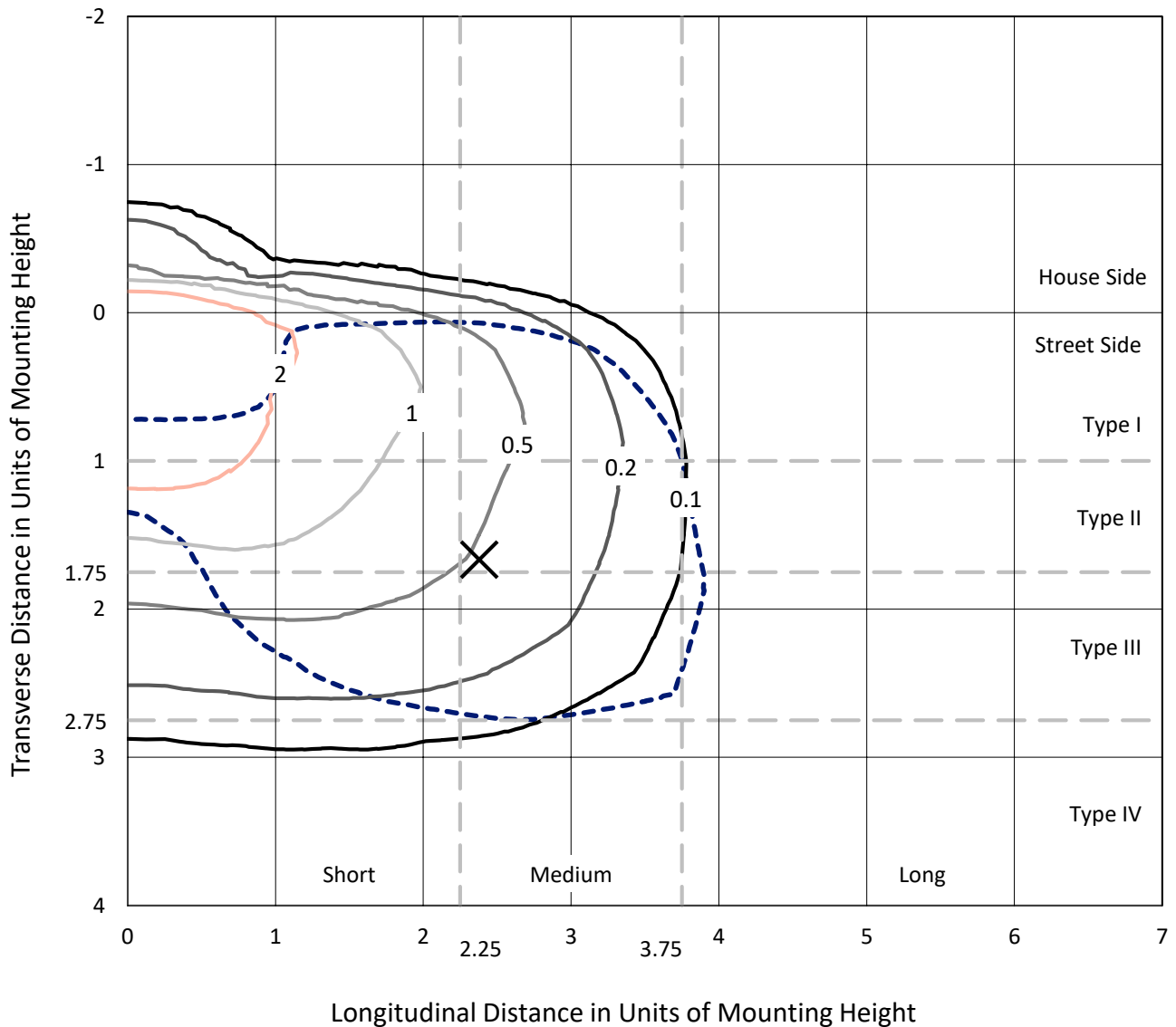
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

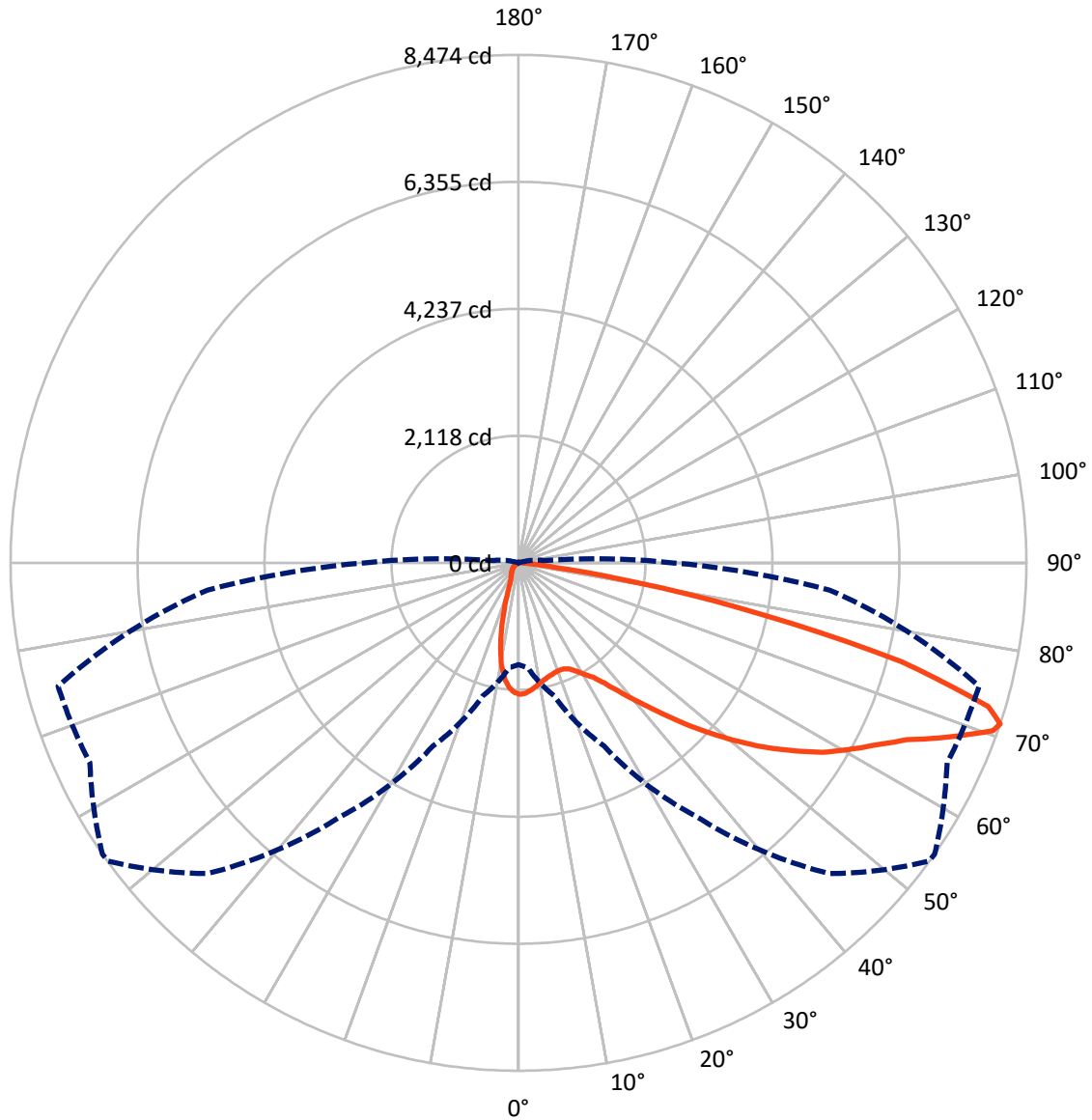
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	900.5	0.0	900.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10473.7	0.0	10473.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	11374.2	0.0	11374.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.0	1.6
10°-20°	422.2	3.7
20°-30°	678.5	6.0
30°-40°	1152.9	10.1
40°-50°	1789.4	15.7
50°-60°	2405.8	21.2
60°-70°	2943.1	25.9
70°-80°	1720.8	15.1
80°-90°	74.4	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°	11374.2	100.0
0°-180°	11374.2	100.0

Coefficient of Utilization

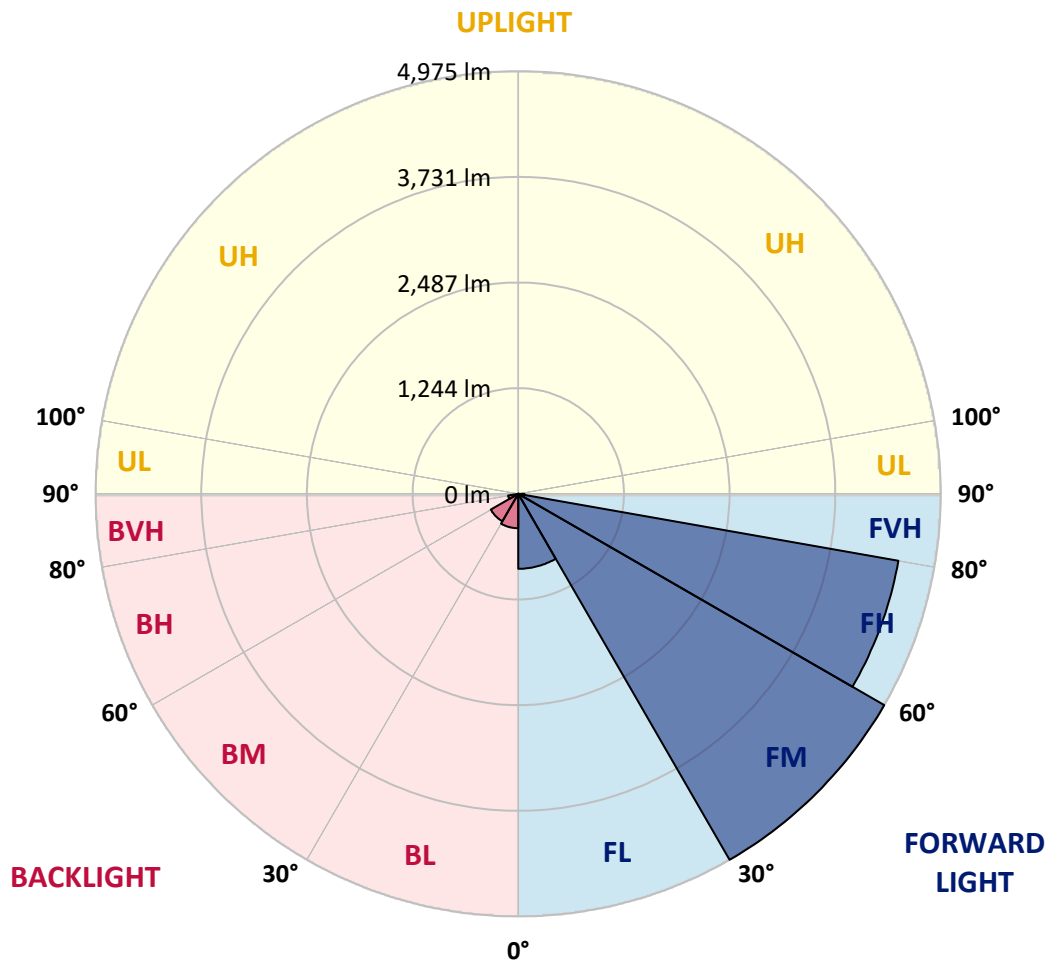


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	882.5	7.8			
FM (30°-60°)	4974.7	43.7			
FH (60°-80°)	4543.2	39.9			G2/5000
FVH (80°-90°)	73.2	0.6			G1/100
BL (0°-30°)	405.3	3.6	B1/500		
BM (30°-60°)	373.4	3.3	B1/1000		
BH (60°-80°)	120.6	1.1	B1/500		G1/500
BVH (80°-90°)	1.2	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2129.2	2131.8	2141.0	2145.1	2154.8	2171.1	2179.3	2179.7	2193.0	2198.2	2202.3
5°	1978.5	1993.9	2009.2	2025.6	2055.2	2094.5	2133.2	2136.9	2179.7	2211.4	2228.3
7.5°	1848.8	1862.6	1881.0	1907.1	1948.9	2010.7	2075.6	2083.2	2164.5	2236.5	2274.3
10°	1715.5	1726.7	1753.3	1791.6	1849.3	1932.0	2019.4	2032.2	2150.7	2270.2	2336.6
12.5°	1573.0	1579.6	1611.9	1667.0	1751.8	1856.9	1971.9	1988.8	2142.0	2308.9	2410.1
15°	1464.8	1467.8	1498.5	1555.7	1652.7	1789.6	1935.1	1955.6	2144.0	2355.4	2490.3
17.5°	1437.2	1438.7	1455.1	1494.4	1580.2	1729.3	1906.0	1931.0	2150.1	2400.9	2571.0
20°	1549.0	1538.3	1521.4	1515.3	1552.1	1693.1	1888.6	1916.8	2158.3	2441.2	2643.5
22.5°	1855.9	1824.3	1754.3	1660.9	1604.2	1695.6	1893.3	1921.3	2184.4	2490.8	2727.3
25°	2311.5	2267.6	2148.6	1964.7	1788.0	1769.1	1931.6	1960.2	2235.0	2550.0	2807.4
27.5°	2829.9	2786.5	2640.9	2378.4	2077.1	1914.7	2019.4	2046.0	2310.0	2602.7	2868.7
30°	3326.4	3314.1	3142.5	2844.2	2440.7	2150.7	2132.8	2155.2	2365.7	2634.3	2917.2
32.5°	3747.2	3727.8	3589.9	3299.8	2857.0	2434.1	2266.1	2272.7	2407.6	2675.1	2980.6
35°	4137.4	4113.3	3992.3	3718.1	3284.0	2780.4	2471.4	2461.7	2499.0	2757.4	3072.5
37.5°	4478.0	4499.9	4365.7	4104.7	3666.9	3140.4	2748.2	2719.1	2642.0	2891.2	3205.8
40°	4763.0	4763.0	4693.0	4475.4	4080.6	3512.8	3061.3	3023.0	2857.0	3097.5	3374.8
42.5°	4865.7	4887.6	4913.6	4790.6	4450.9	3899.9	3410.1	3370.2	3159.8	3390.2	3588.3
45°	4871.8	4906.6	5039.9	5039.3	4785.5	4284.5	3803.3	3784.4	3548.0	3766.1	3852.9
47.5°	4785.5	4828.9	5048.5	5173.1	5050.6	4642.5	4233.4	4209.8	4004.1	4226.7	4129.7
50°	4652.1	4700.2	4955.6	5225.7	5230.8	4954.0	4686.4	4651.1	4506.1	4753.3	4415.7
52.5°	4413.7	4506.6	4872.3	5238.0	5349.3	5223.2	5117.5	5102.1	5067.9	5260.4	4643.5
55°	3903.5	4006.6	4663.4	5242.1	5459.1	5461.7	5521.5	5525.5	5594.5	5734.4	4813.0
57.5°	3662.4	3720.6	4298.7	5261.5	5622.1	5732.4	5933.0	5964.7	6071.5	6184.4	5006.6
60°	3510.7	3579.7	4119.0	5234.9	5877.9	6087.3	6314.6	6325.3	6439.7	6648.5	5268.6
62.5°	3389.6	3457.6	4005.6	5132.7	6165.4	6514.3	6687.4	6688.4	6774.2	7201.7	5566.4
65°	3090.9	3148.1	3776.3	5017.9	6355.4	6936.7	7120.5	7113.9	7183.8	7784.9	5912.2
67.5°	2658.8	2702.7	3307.9	4582.2	6283.9	7320.7	7774.2	7752.2	7667.5	8289.0	6048.0
70°	2055.6	2071.5	2607.2	3818.7	5613.9	7468.3	8406.0	8394.7	7964.2	8198.6	5550.1
71°	1699.1	1751.3	2297.8	3370.2	5165.0	7331.9	8467.3	8473.9	7889.6	7952.4	5207.4
72.5°	986.7	1031.1	1665.4	2588.3	4385.1	6763.0	8149.6	8197.6	7541.3	7233.4	4447.9
75°	211.5	226.3	617.4	1252.8	2412.1	4740.0	6432.5	6603.6	6146.5	4920.8	2680.8
77.5°	147.1	158.8	264.6	568.4	797.2	2342.2	3995.9	4189.0	3672.1	1849.3	858.0
80°	116.4	129.8	206.3	280.9	215.6	755.4	1871.8	1989.8	1224.7	412.7	144.6
82.5°	64.8	77.1	160.9	151.7	82.7	143.6	524.0	592.5	245.2	83.3	34.2
85°	18.9	23.0	103.7	110.3	35.2	27.6	89.3	110.9	46.5	22.0	15.3
87.5°	0.0	0.0	50.0	42.4	10.2	4.1	8.2	9.2	9.2	9.2	10.2
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°	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5	2193.5
2.5°	2202.3	2205.8	2193.0	2176.2	2158.3	2136.3	2113.4	2095.5	2095.0	2086.3	2077.6
5°	2229.3	2227.2	2192.0	2138.4	2075.0	2009.2	1946.4	1875.4	1851.9	1822.8	1813.1
7.5°	2279.3	2265.1	2190.5	2073.1	1934.1	1796.2	1653.7	1510.2	1448.9	1393.8	1384.1
10°	2342.2	2315.1	2180.8	1975.0	1720.1	1465.8	1250.8	1055.6	969.8	904.0	900.9
12.5°	2407.6	2366.2	2153.7	1826.9	1439.7	1082.2	834.5	642.5	570.9	525.0	529.1
15°	2476.0	2414.2	2095.5	1627.1	1120.6	734.4	512.7	399.9	371.3	359.6	362.7
17.5°	2545.9	2447.4	2014.3	1386.6	805.4	474.0	354.9	323.2	323.2	325.9	326.9
20°	2606.7	2465.2	1894.8	1116.9	546.0	345.2	310.5	305.9	308.4	312.5	313.1
22.5°	2667.0	2466.3	1739.0	843.7	382.0	302.4	295.7	293.6	295.2	299.8	300.3
25°	2716.0	2454.1	1543.9	600.1	304.9	285.0	281.9	280.9	281.9	287.6	287.6
27.5°	2736.0	2409.6	1305.9	421.9	273.2	265.6	264.6	265.6	267.1	271.2	271.7
30°	2738.0	2331.9	1046.5	305.5	247.7	239.5	241.6	245.2	243.6	242.6	243.6
32.5°	2743.1	2242.0	793.7	251.2	226.3	213.5	210.9	210.9	204.8	201.2	199.2
35°	2760.0	2136.3	575.6	225.7	204.3	189.5	179.8	168.5	156.8	150.6	149.1
37.5°	2786.5	2025.6	412.1	208.9	184.9	168.1	149.6	129.8	112.9	108.2	108.2
40°	2835.0	1911.2	304.9	195.6	169.5	148.6	121.0	95.0	79.6	77.1	77.1
42.5°	2911.6	1790.6	243.1	183.9	156.3	128.7	92.4	68.9	57.8	56.2	55.7
45°	2991.3	1657.8	212.5	172.6	142.0	105.7	68.5	51.0	44.4	42.9	42.9
47.5°	3070.9	1516.4	197.7	161.9	128.2	82.3	51.0	40.3	37.3	37.3	37.8
50°	3138.4	1368.7	187.0	150.2	110.3	62.3	40.3	34.2	33.2	35.2	35.8
52.5°	3155.2	1223.7	173.6	135.4	88.3	47.5	33.2	30.1	30.1	30.1	30.1
55°	3145.0	1111.3	156.3	116.9	65.4	37.8	28.6	26.5	26.1	26.1	26.1
57.5°	3179.7	1044.9	125.1	90.9	46.9	30.6	25.1	23.5	22.5	22.0	22.0
60°	3249.7	1001.5	89.3	65.4	35.2	25.5	21.4	19.9	18.4	17.3	17.3
62.5°	3342.7	963.8	66.4	48.5	27.1	20.4	17.9	16.3	14.3	13.3	13.3
65°	3414.2	896.3	50.6	36.2	20.4	16.3	13.8	13.3	10.2	9.2	8.7
67.5°	3304.9	748.2	40.9	26.5	15.3	12.8	10.7	10.2	6.1	5.1	5.1
70°	2834.5	520.9	32.7	19.4	11.3	10.2	8.7	6.6	4.6	4.1	4.1
71°	2570.5	435.1	29.6	16.3	9.7	9.7	8.2	5.6	4.1	3.5	3.5
72.5°	2135.3	309.0	25.1	12.8	8.7	10.2	8.7	5.1	4.1	3.5	3.1
75°	1239.5	129.2	17.3	8.7	6.6	12.3	11.3	4.6	3.1	2.5	2.5
77.5°	372.8	47.5	9.7	5.6	5.1	10.7	12.8	4.1	1.5	0.5	0.5
80°	67.9	20.4	6.1	3.5	3.5	6.6	9.7	2.0	0.0	0.0	0.0
82.5°	24.0	10.2	3.5	2.0	1.5	3.1	4.6	0.0	0.0	0.0	0.0
85°	13.8	7.2	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.2	2.0	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)