

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: P382937

Luminaire Tested: **GLEON-SA3A-735-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382937
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10848.8 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

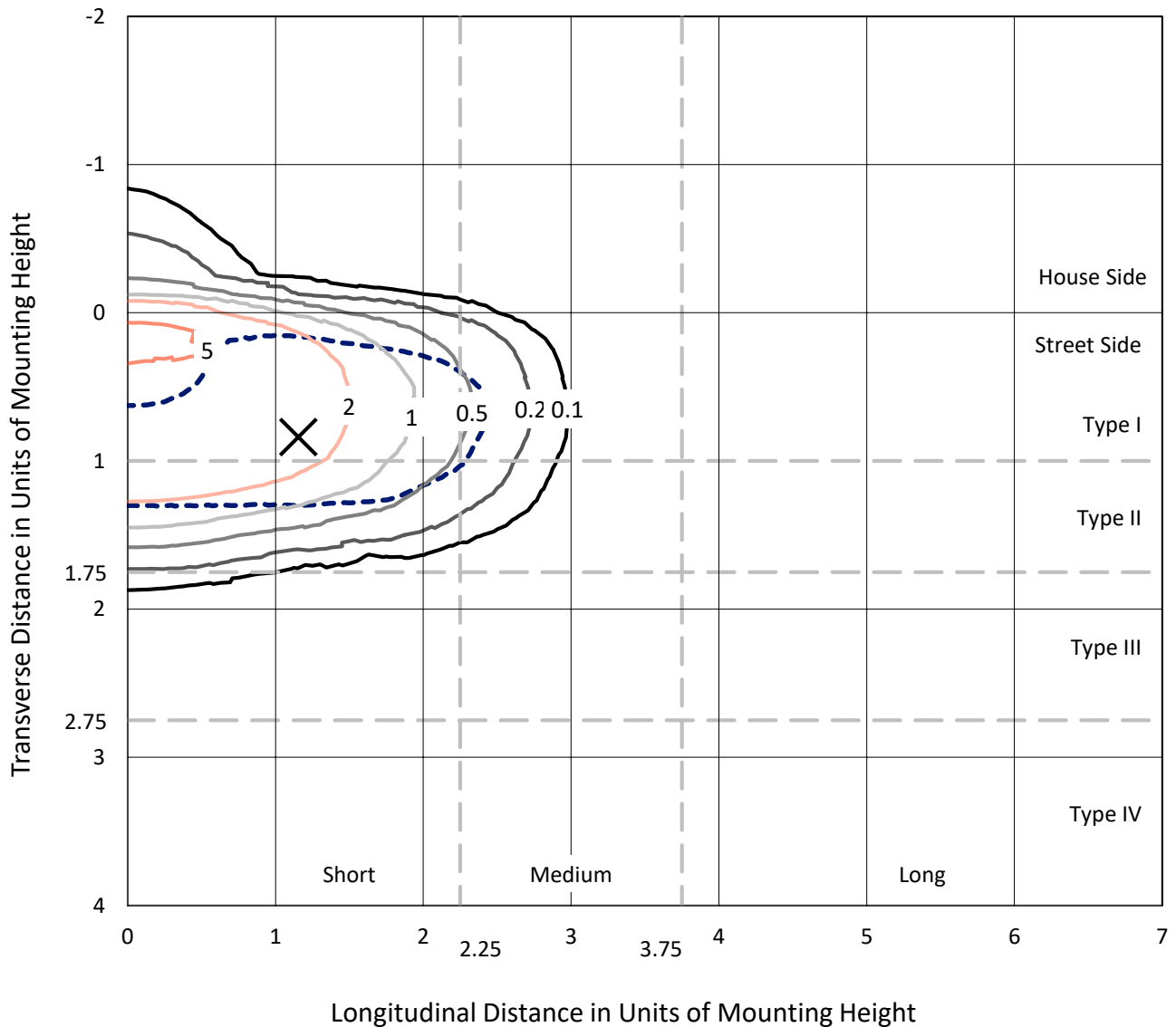
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

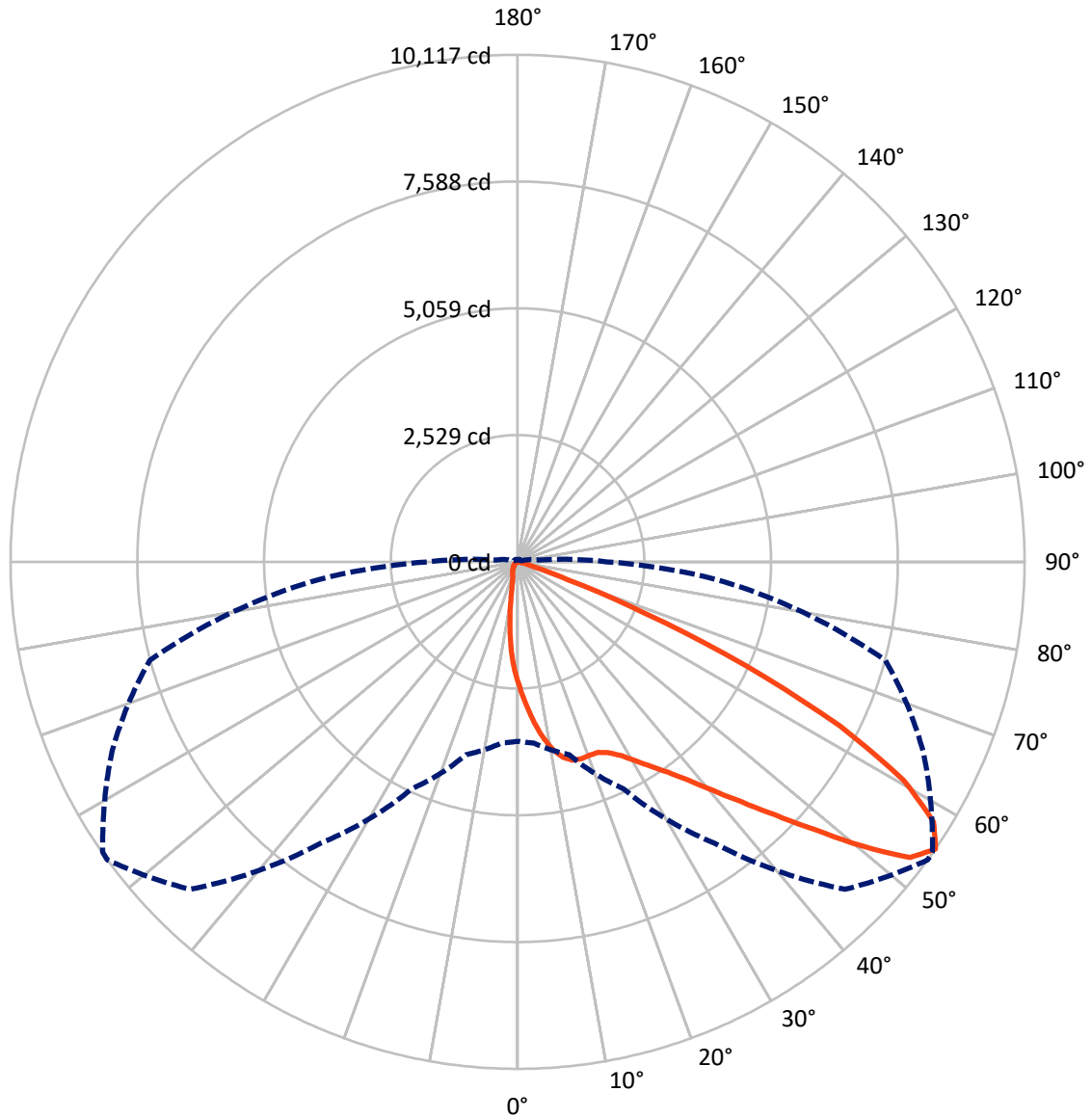
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	541.3	0.0	541.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	10307.5	0.0	10307.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	10848.8	0.0	10848.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	2.1
10°-20°	613.6	5.7
20°-30°	1047.7	9.7
30°-40°	1681.3	15.5
40°-50°	2686.8	24.8
50°-60°	2879.0	26.5
60°-70°	1478.1	13.6
70°-80°	223.9	2.1
80°-90°	14.6	0.1
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°	10848.8	100.0
0°-180°	10848.8	100.0

Coefficient of Utilization



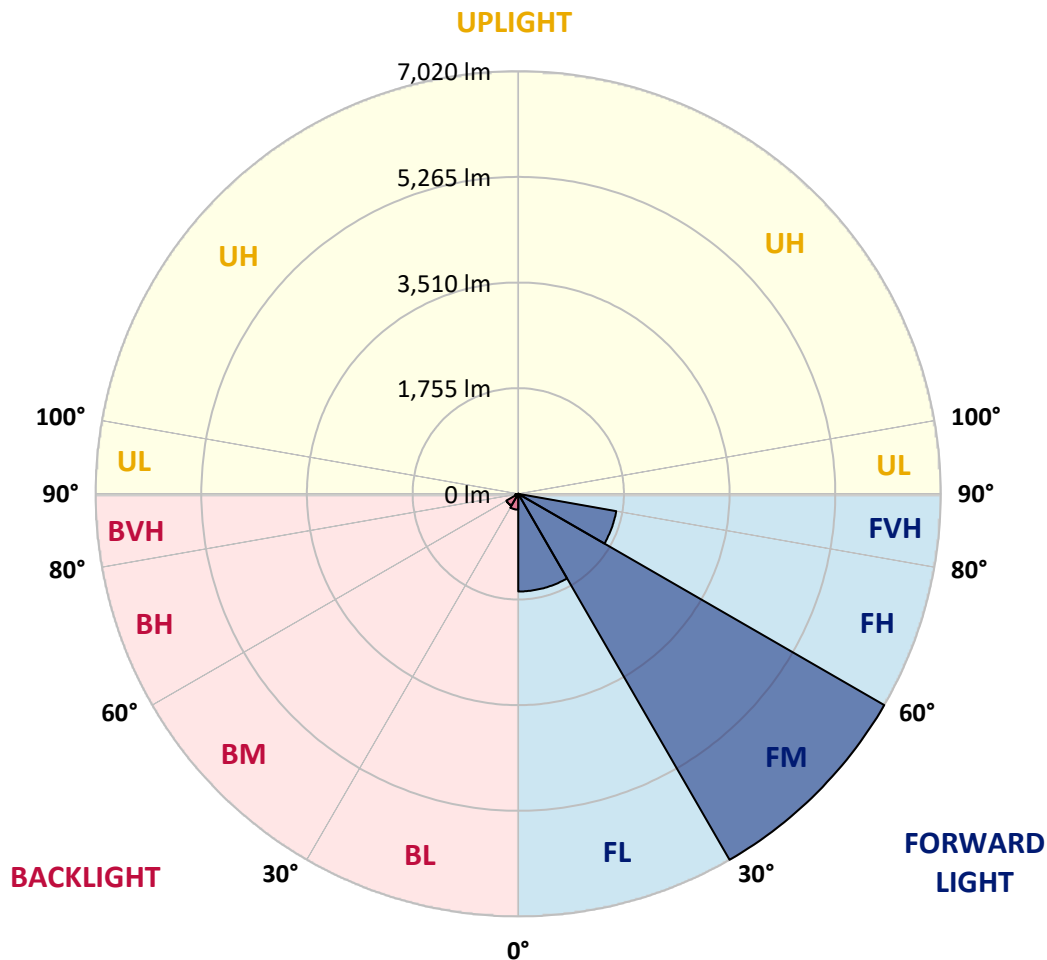
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1621.7	14.9			
FM (30°-60°)	7019.7	64.7			
FH (60°-80°)	1652.2	15.2			G1/1800
FVH (80°-90°)	14.0	0.1			G1/100
BL (0°-30°)	263.4	2.4	B1/500		
BM (30°-60°)	227.5	2.1	B1/1000		
BH (60°-80°)	49.9	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7
2.5°	3049.0	3003.6	3005.0	2984.4	2908.9	2850.0	2788.6	2774.1	2678.5	2578.2	2481.7
5°	3576.1	3542.9	3534.9	3495.1	3390.2	3279.1	3160.1	3132.4	2945.6	2740.3	2538.4
7.5°	3846.9	3847.4	3840.9	3826.3	3760.8	3653.0	3507.7	3478.7	3224.3	2916.5	2597.4
10°	3768.2	3786.0	3822.6	3870.9	3921.0	3907.4	3798.2	3772.0	3495.5	3103.0	2663.0
12.5°	3584.6	3586.9	3627.6	3706.8	3851.2	3999.2	4001.1	3992.1	3754.6	3297.9	2735.2
15°	3493.2	3502.2	3517.2	3568.2	3705.0	3942.0	4111.7	4124.3	3992.1	3504.9	2812.0
17.5°	3553.2	3565.9	3553.2	3559.3	3638.4	3851.7	4130.9	4163.2	4199.7	3709.7	2884.6
20°	3715.8	3727.5	3705.0	3680.2	3695.6	3825.4	4117.3	4160.9	4362.3	3891.4	2945.6
22.5°	3935.0	3939.7	3905.5	3864.7	3853.5	3914.4	4128.5	4173.5	4492.6	4055.9	2983.9
25°	4176.3	4180.5	4137.8	4091.1	4064.3	4089.1	4220.8	4254.6	4607.3	4212.8	3006.0
27.5°	4439.1	4442.9	4389.5	4331.9	4301.0	4301.9	4373.1	4409.1	4729.7	4391.8	3023.8
30°	4717.0	4715.1	4665.9	4585.8	4546.4	4545.5	4592.3	4628.9	4906.7	4621.4	3048.1
32.5°	5029.0	5025.2	4955.5	4856.2	4811.6	4818.2	4859.9	4880.9	5126.4	4865.9	3091.7
35°	5439.9	5429.1	5323.7	5200.5	5118.5	5116.2	5151.3	5168.1	5406.6	5162.1	3164.3
37.5°	5973.1	5963.2	5820.3	5641.4	5526.1	5483.0	5524.6	5546.2	5806.2	5542.1	3281.0
40°	6498.8	6488.9	6404.1	6240.1	6062.5	5959.0	5991.8	6014.7	6305.2	6003.0	3428.1
42.5°	6861.3	6869.8	6899.3	6912.9	6746.5	6529.1	6544.1	6568.1	6829.5	6495.9	3596.3
45°	6956.9	6975.1	7142.0	7469.4	7531.7	7362.2	7205.2	7218.4	7362.2	6988.7	3764.5
47.5°	6669.7	6703.4	7025.4	7634.4	8161.9	8281.8	7984.9	7967.5	7873.3	7387.5	3884.0
50°	6017.1	6048.0	6464.9	7365.9	8353.1	9159.8	8919.0	8868.0	8321.7	7625.9	3926.1
52.5°	5072.6	5110.0	5448.8	6520.7	7992.8	9551.5	9803.6	9760.9	8650.5	7644.7	3933.2
55°	3582.3	3627.6	3986.1	4997.6	6851.1	9239.9	10117.0	10104.4	8923.8	7595.0	3948.2
57.5°	2013.2	2046.0	2432.6	3203.7	5017.8	8048.1	9789.5	9873.4	9088.6	7508.8	3970.6
60°	893.9	902.9	1102.9	1594.8	2937.5	6150.6	8852.0	8993.5	8947.1	7393.6	4008.5
62.5°	495.7	488.2	488.2	663.0	1276.7	3807.6	7218.4	7452.1	8343.2	7257.2	4010.4
65°	388.4	381.4	361.3	364.0	486.3	1689.9	4998.5	5414.2	7196.3	6857.6	3875.5
67.5°	329.4	323.2	303.1	295.2	302.2	557.5	2746.4	3177.9	5460.5	5818.9	3356.9
70°	278.3	274.1	263.8	253.9	236.1	275.5	1050.9	1344.1	3364.8	3870.9	2291.5
72.5°	223.9	222.1	225.8	217.4	195.8	183.7	359.4	435.2	1511.4	1727.4	944.0
75°	193.0	192.1	193.9	185.6	161.2	127.9	182.7	199.6	426.4	422.6	191.2
77.5°	125.6	127.0	160.7	157.0	138.7	85.2	94.6	102.1	129.3	97.0	58.1
80°	80.1	79.2	81.5	130.2	124.6	65.1	47.3	49.7	62.3	47.8	28.1
82.5°	48.7	47.8	53.4	60.9	62.8	45.5	29.1	29.5	38.8	30.9	15.0
85°	4.2	5.6	32.3	30.0	21.5	14.1	14.1	15.0	20.6	18.3	8.5
87.5°	0.0	0.0	5.6	8.5	4.7	5.1	5.1	5.6	7.9	7.9	4.2
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°	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7	2429.7
2.5°	2431.5	2382.8	2284.4	2189.8	2109.7	2032.4	1944.3	1857.1	1816.4	1800.0	1783.2
5°	2435.8	2335.5	2132.7	1928.4	1716.7	1526.0	1363.3	1196.6	1113.2	1076.7	1059.7
7.5°	2441.4	2288.7	1960.7	1617.7	1276.7	1018.1	792.3	647.1	584.3	574.4	550.0
10°	2442.3	2232.0	1761.1	1274.8	856.0	613.7	472.3	397.3	369.6	365.0	357.0
12.5°	2444.2	2165.0	1539.6	944.0	570.7	410.4	341.5	316.7	309.2	308.7	308.7
15°	2449.9	2094.7	1309.5	680.3	410.0	325.1	299.9	290.0	287.2	288.6	288.1
17.5°	2449.9	2011.8	1083.7	506.9	331.3	292.3	278.3	271.7	270.8	272.2	272.7
20°	2432.1	1911.1	876.6	394.5	293.7	271.3	258.6	252.5	250.2	251.1	251.6
22.5°	2389.4	1787.4	707.9	326.5	268.9	252.1	238.5	229.1	225.3	225.8	225.8
25°	2322.9	1640.7	553.8	282.5	248.8	231.5	215.6	204.8	202.4	202.0	202.9
27.5°	2237.6	1478.6	440.9	248.8	224.9	208.5	192.6	183.7	181.7	182.2	182.7
30°	2153.7	1310.4	347.7	220.2	198.1	182.7	170.6	166.3	166.3	167.8	168.2
32.5°	2076.9	1148.8	275.0	195.3	174.3	160.2	153.2	152.8	155.1	156.0	156.5
35°	2010.8	999.4	227.7	176.2	155.6	143.4	141.0	142.9	145.7	147.6	148.0
37.5°	1964.0	865.8	199.1	160.2	141.0	131.2	130.7	134.4	138.2	142.4	143.4
40°	1944.3	752.9	179.4	146.2	129.3	121.8	120.4	125.6	132.6	138.7	139.6
42.5°	1927.9	660.6	162.6	132.6	120.0	109.2	108.7	115.2	123.7	129.8	131.2
45°	1913.9	586.6	147.1	118.0	107.8	93.7	95.1	103.5	110.1	116.6	118.0
47.5°	1884.8	525.7	130.2	102.6	89.1	80.1	82.9	90.5	95.6	105.5	106.8
50°	1832.8	476.0	112.9	83.8	72.7	69.3	73.6	78.7	85.2	93.7	94.6
52.5°	1797.7	438.5	97.9	70.2	60.0	60.9	65.1	67.0	70.7	74.1	73.1
55°	1777.5	417.9	85.7	60.9	51.0	53.8	54.8	52.4	50.6	47.3	45.9
57.5°	1775.2	399.2	76.4	52.9	45.0	46.4	43.1	35.1	28.6	24.9	23.8
60°	1771.4	376.3	68.8	44.5	39.8	37.9	30.9	19.2	13.6	12.7	12.7
62.5°	1730.7	340.6	63.3	37.4	33.7	28.6	17.8	8.9	7.5	7.9	7.9
65°	1600.9	290.9	57.7	30.5	26.7	20.6	8.9	5.1	2.8	3.3	3.3
67.5°	1361.0	232.0	51.5	23.4	20.1	13.1	5.1	2.3	0.0	0.0	0.0
70°	911.2	143.8	43.6	16.4	13.1	7.9	3.7	0.5	0.0	0.0	0.0
72.5°	349.5	77.8	35.1	9.9	8.5	5.6	2.3	0.0	0.0	0.0	0.0
75°	78.7	51.0	24.4	7.0	6.1	3.7	0.9	0.0	0.0	0.0	0.0
77.5°	30.0	37.0	14.1	4.7	4.2	2.3	0.0	0.0	0.0	0.0	0.0
80°	14.5	22.0	6.5	2.8	2.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	8.5	2.8	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	4.2	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.4	0.5	0.5	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)