

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: P382909

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382909
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-SA2D-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 12106.4 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

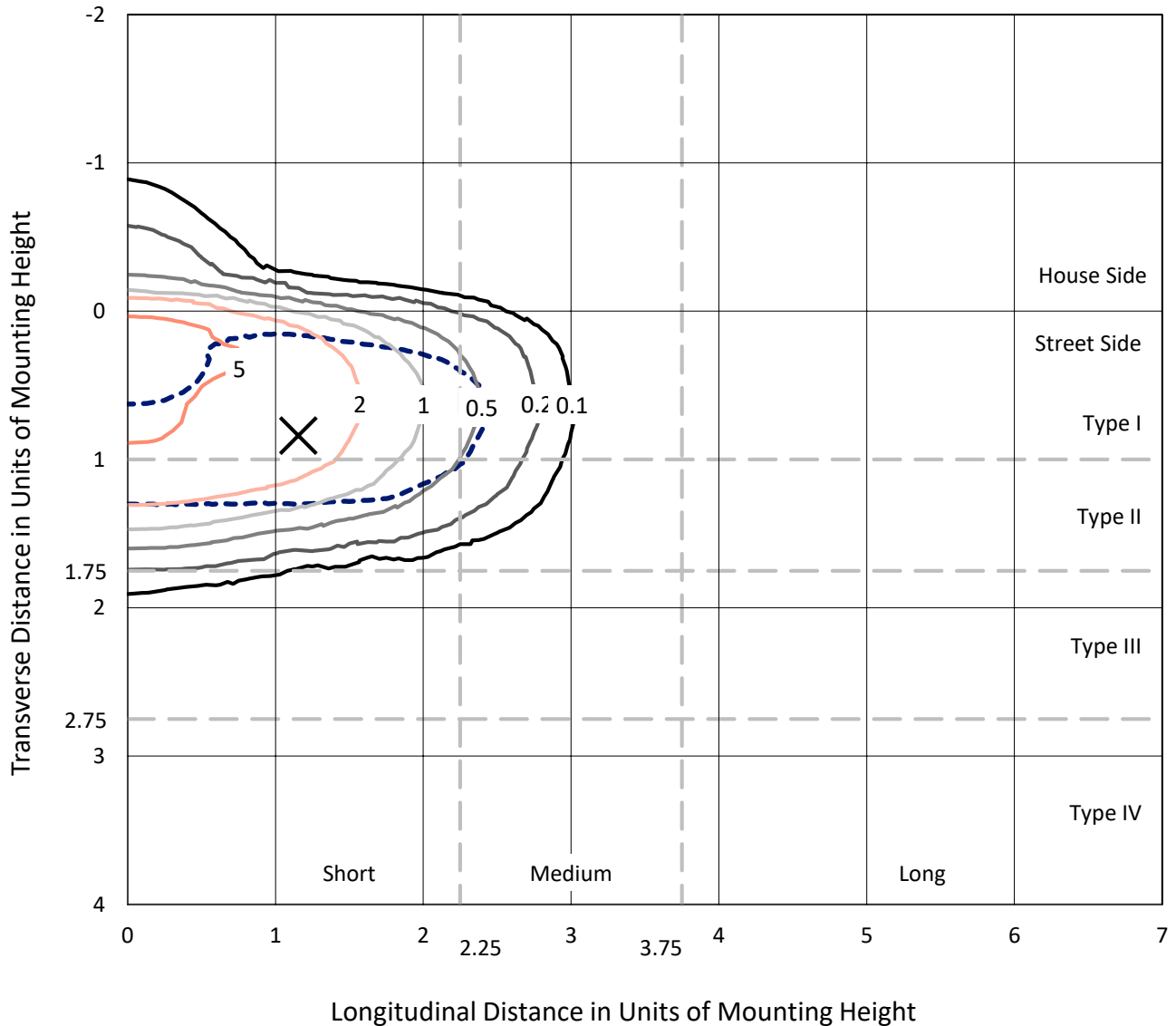
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

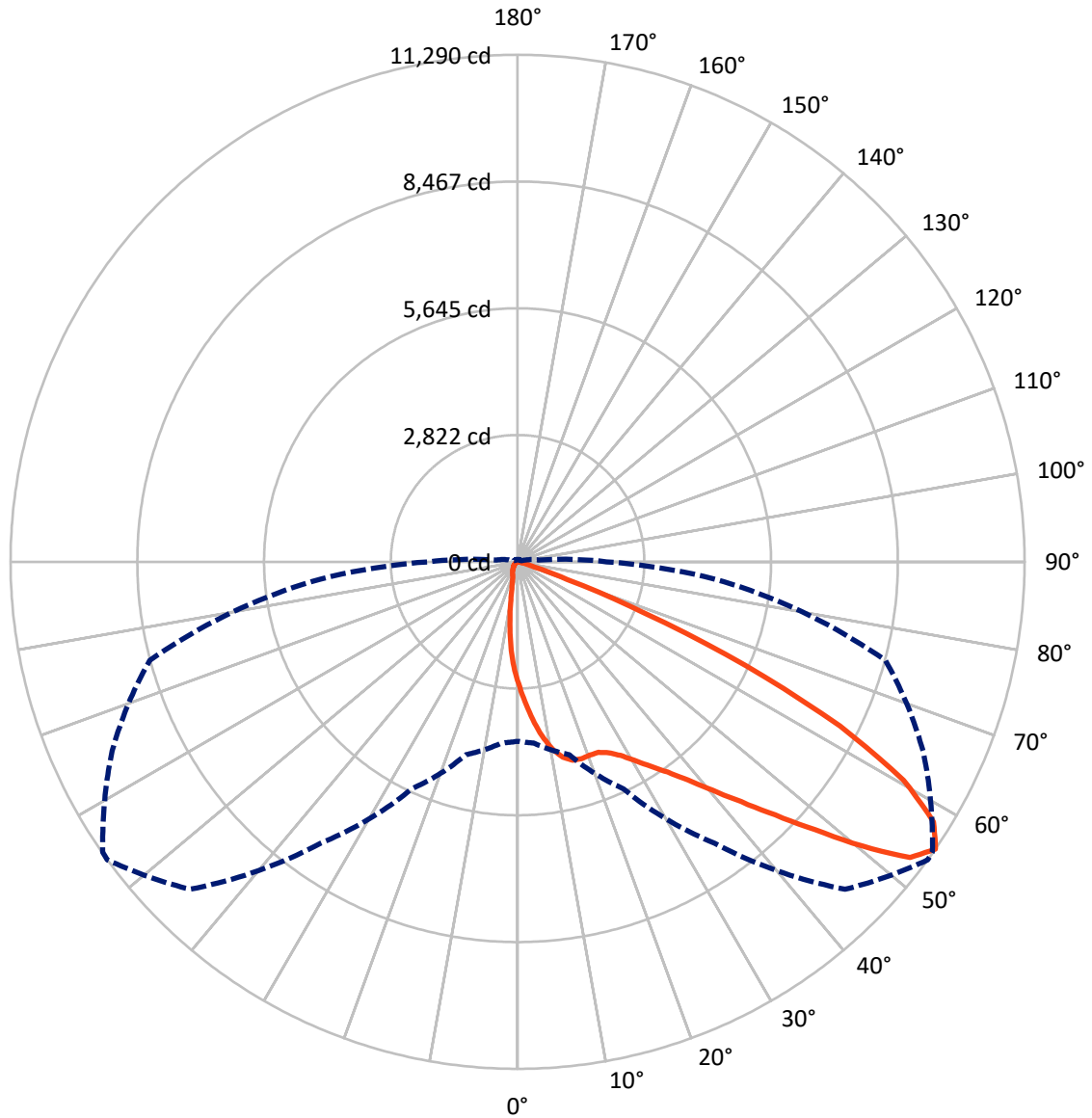
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	604.0	0.0	604.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	11502.4	0.0	11502.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	12106.4	0.0	12106.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.7	2.1
10°-20°	684.8	5.7
20°-30°	1169.1	9.7
30°-40°	1876.2	15.5
40°-50°	2998.2	24.8
50°-60°	3212.7	26.5
60°-70°	1649.5	13.6
70°-80°	249.9	2.1
80°-90°	16.3	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°	12106.4	100.0
0°-180°	12106.4	100.0

Coefficient of Utilization



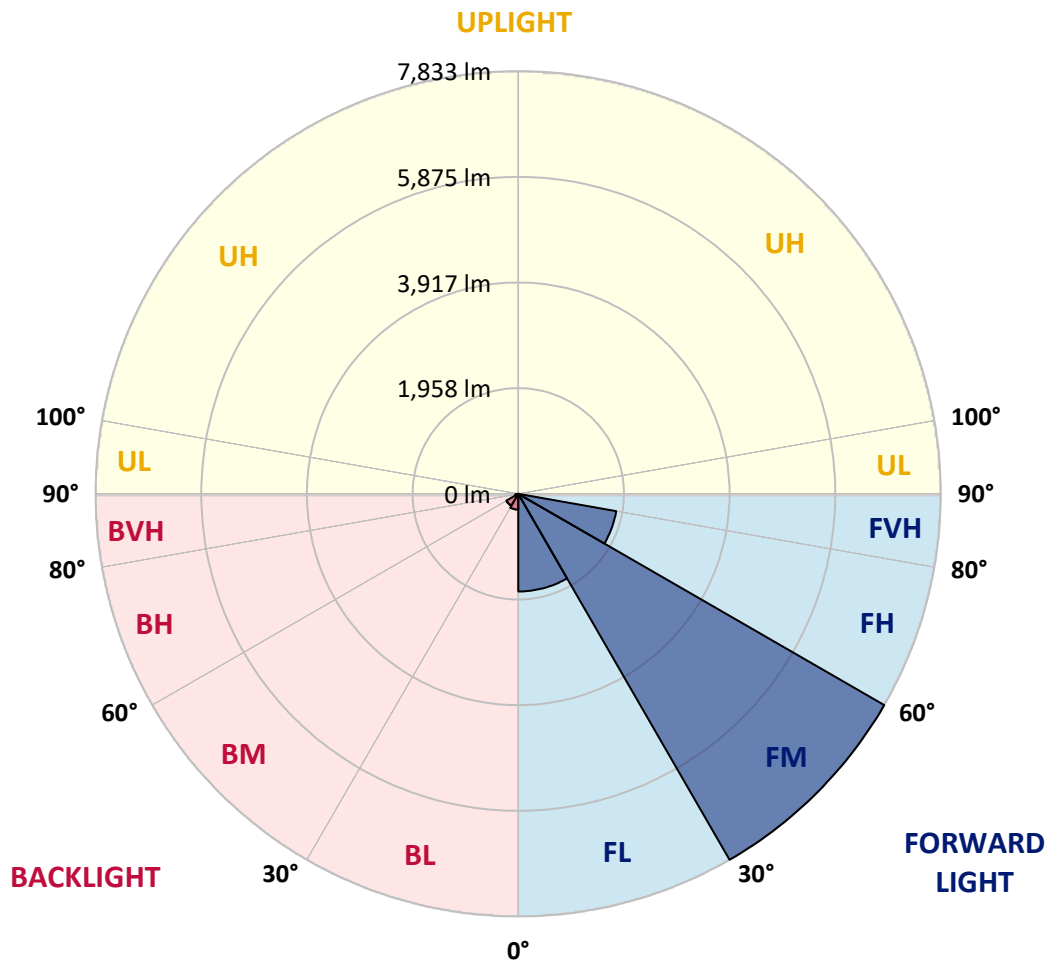
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1809.7	14.9			
FM (30°-60°)	7833.4	64.7			
FH (60°-80°)	1843.7	15.2			G2/5000
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	293.9	2.4	B1/500		
BM (30°-60°)	253.8	2.1	B1/1000		
BH (60°-80°)	55.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.7	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	3402.5	3351.8	3353.4	3330.4	3246.2	3180.3	3111.8	3095.6	2989.0	2877.1	2769.4
5°	3990.7	3953.6	3944.6	3900.2	3783.1	3659.2	3526.5	3495.5	3287.0	3058.0	2832.6
7.5°	4292.9	4293.4	4286.1	4269.8	4196.7	4076.5	3914.4	3881.9	3598.0	3254.5	2898.5
10°	4205.0	4224.9	4265.6	4319.6	4375.5	4360.3	4238.5	4209.2	3900.8	3462.7	2971.7
12.5°	4000.1	4002.7	4048.2	4136.5	4297.6	4462.8	4464.9	4454.9	4189.9	3680.2	3052.2
15°	3898.2	3908.1	3924.8	3981.8	4134.5	4399.0	4588.2	4602.4	4454.9	3911.2	3138.0
17.5°	3965.0	3979.2	3965.0	3971.8	4060.2	4298.1	4609.7	4645.8	4686.5	4139.7	3219.0
20°	4146.5	4159.5	4134.5	4106.7	4124.0	4268.8	4594.6	4643.2	4868.0	4342.5	3287.0
22.5°	4391.1	4396.4	4358.2	4312.8	4300.2	4368.1	4607.1	4657.3	5013.3	4526.0	3329.8
25°	4660.4	4665.1	4617.6	4565.2	4535.4	4563.2	4710.1	4747.7	5141.4	4701.2	3354.4
27.5°	4953.7	4957.9	4898.3	4834.0	4799.5	4800.5	4880.0	4920.2	5277.9	4900.9	3374.3
30°	5263.7	5261.7	5206.8	5117.4	5073.5	5072.4	5124.7	5165.4	5475.5	5157.1	3401.5
32.5°	5611.9	5607.7	5529.9	5419.0	5369.3	5376.7	5423.2	5446.8	5720.7	5430.0	3450.1
35°	6070.4	6058.4	5940.9	5803.3	5711.8	5709.2	5748.4	5767.2	6033.4	5760.4	3531.1
37.5°	6665.4	6654.4	6495.0	6295.3	6166.7	6118.6	6165.1	6189.1	6479.3	6184.5	3661.4
40°	7252.0	7241.1	7146.5	6963.4	6765.3	6649.8	6686.4	6712.0	7036.1	6698.9	3825.5
42.5°	7656.7	7666.1	7699.1	7714.2	7528.6	7286.0	7302.8	7329.4	7621.2	7248.9	4013.2
45°	7763.3	7783.7	7969.9	8335.3	8404.9	8215.6	8040.5	8055.1	8215.6	7798.9	4200.9
47.5°	7442.9	7480.5	7839.7	8519.4	9108.0	9241.9	8910.4	8891.1	8786.0	8243.8	4334.2
50°	6714.6	6749.1	7214.4	8219.8	9321.3	10221.7	9952.9	9895.9	9286.3	8510.0	4381.3
52.5°	5660.5	5702.4	6080.4	7276.6	8919.3	10658.8	10940.0	10892.4	9653.3	8530.8	4389.1
55°	3997.5	4048.2	4448.1	5576.9	7645.2	10311.0	11289.8	11275.6	9958.2	8475.4	4405.8
57.5°	2246.5	2283.1	2714.4	3575.0	5599.4	8981.1	10924.4	11017.9	10142.2	8379.3	4430.9
60°	997.5	1007.5	1230.8	1779.7	3278.1	6863.5	9878.1	10036.0	9984.3	8250.6	4473.3
62.5°	553.2	544.8	544.8	739.8	1424.7	4249.0	8055.1	8316.0	9310.4	8098.5	4475.3
65°	433.4	425.5	403.1	406.2	542.7	1885.8	5578.0	6041.7	8030.5	7652.5	4324.8
67.5°	367.6	360.8	338.2	329.4	337.2	622.2	3064.8	3546.3	6093.4	6493.4	3746.0
70°	310.6	305.8	294.4	283.4	263.5	307.4	1172.7	1500.0	3754.9	4319.6	2557.1
72.5°	249.9	247.8	252.0	242.6	218.5	204.9	401.0	485.7	1686.7	1927.7	1053.5
75°	215.4	214.3	216.5	207.1	179.9	142.7	203.9	222.7	475.7	471.5	213.3
77.5°	140.1	141.7	179.3	175.1	154.7	95.1	105.6	113.9	144.3	108.2	64.8
80°	89.4	88.3	91.0	145.3	139.1	72.7	52.8	55.4	69.5	53.3	31.4
82.5°	54.4	53.3	59.6	68.0	70.1	50.7	32.4	33.0	43.4	34.5	16.8
85°	4.8	6.2	36.1	33.4	24.0	15.6	15.6	16.8	23.0	20.4	9.4
87.5°	0.0	0.0	6.2	9.4	5.2	5.8	5.8	6.2	8.8	8.8	4.8
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°	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4	2711.4
2.5°	2713.4	2659.1	2549.3	2443.6	2354.3	2268.0	2169.7	2072.4	2027.0	2008.7	1989.9
5°	2718.2	2606.3	2379.9	2152.0	1915.6	1702.9	1521.4	1335.3	1242.2	1201.4	1182.6
7.5°	2724.4	2553.9	2188.0	1805.3	1424.7	1136.1	884.1	722.0	652.0	641.0	613.8
10°	2725.4	2490.7	1965.3	1422.6	955.2	684.9	527.0	443.3	412.5	407.3	398.4
12.5°	2727.6	2416.0	1718.0	1053.5	636.8	457.9	381.1	353.4	345.0	344.6	344.6
15°	2733.8	2337.5	1461.3	759.1	457.5	362.8	334.6	323.6	320.5	322.0	321.6
17.5°	2733.8	2245.0	1209.2	565.7	369.6	326.2	310.6	303.2	302.2	303.8	304.2
20°	2714.0	2132.6	978.2	440.2	327.8	302.8	288.6	281.8	279.2	280.2	280.8
22.5°	2666.4	1994.5	790.0	364.4	300.1	281.2	266.1	255.6	251.5	252.0	252.0
25°	2592.1	1831.0	618.0	315.2	277.6	258.3	240.5	228.5	225.9	225.3	226.4
27.5°	2497.0	1650.1	492.0	277.6	251.0	232.7	214.9	204.9	202.9	203.4	203.9
30°	2403.4	1462.3	387.9	245.7	221.1	203.9	190.3	185.6	185.6	187.1	187.7
32.5°	2317.7	1282.0	306.9	218.0	194.5	178.8	170.9	170.5	173.1	174.1	174.7
35°	2243.9	1115.2	254.1	196.6	173.5	159.9	157.3	159.5	162.6	164.7	165.3
37.5°	2191.7	966.2	222.2	178.8	157.3	146.3	145.9	150.1	154.3	158.9	159.9
40°	2169.7	840.2	200.3	163.1	144.3	135.9	134.3	140.1	147.9	154.7	155.8
42.5°	2151.4	737.1	181.4	147.9	133.9	121.8	121.3	128.6	138.1	144.9	146.3
45°	2135.8	654.6	164.1	131.7	120.3	104.5	106.1	115.5	122.9	130.1	131.7
47.5°	2103.3	586.6	145.3	114.5	99.3	89.4	92.5	100.9	106.7	117.7	119.2
50°	2045.3	531.2	126.0	93.6	81.0	77.4	82.1	87.8	95.1	104.5	105.6
52.5°	2006.1	489.3	109.3	78.4	66.9	68.0	72.7	74.8	78.9	82.6	81.6
55°	1983.5	466.3	95.7	68.0	57.0	60.1	61.2	58.6	56.5	52.8	51.2
57.5°	1980.9	445.5	85.2	59.1	50.2	51.8	48.1	39.2	31.9	27.7	26.6
60°	1976.7	419.8	76.9	49.7	44.4	42.4	34.5	21.4	15.2	14.2	14.2
62.5°	1931.3	380.1	70.6	41.8	37.6	31.9	19.8	10.0	8.4	8.8	8.8
65°	1786.5	324.6	64.3	34.0	29.8	23.0	10.0	5.8	3.2	3.6	3.6
67.5°	1518.8	258.8	57.5	26.2	22.5	14.6	5.8	2.6	0.0	0.0	0.0
70°	1016.9	160.5	48.6	18.3	14.6	8.8	4.2	0.6	0.0	0.0	0.0
72.5°	390.0	86.8	39.2	11.0	9.4	6.2	2.6	0.0	0.0	0.0	0.0
75°	87.8	57.0	27.2	7.8	6.8	4.2	1.0	0.0	0.0	0.0	0.0
77.5°	33.4	41.3	15.6	5.2	4.8	2.6	0.0	0.0	0.0	0.0	0.0
80°	16.2	24.6	7.4	3.2	2.6	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.4	9.4	3.2	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.8	4.8	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.6	0.6	0.6	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)