

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: P383426

Luminaire Tested: **GLEON-SA7B-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26786.7 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

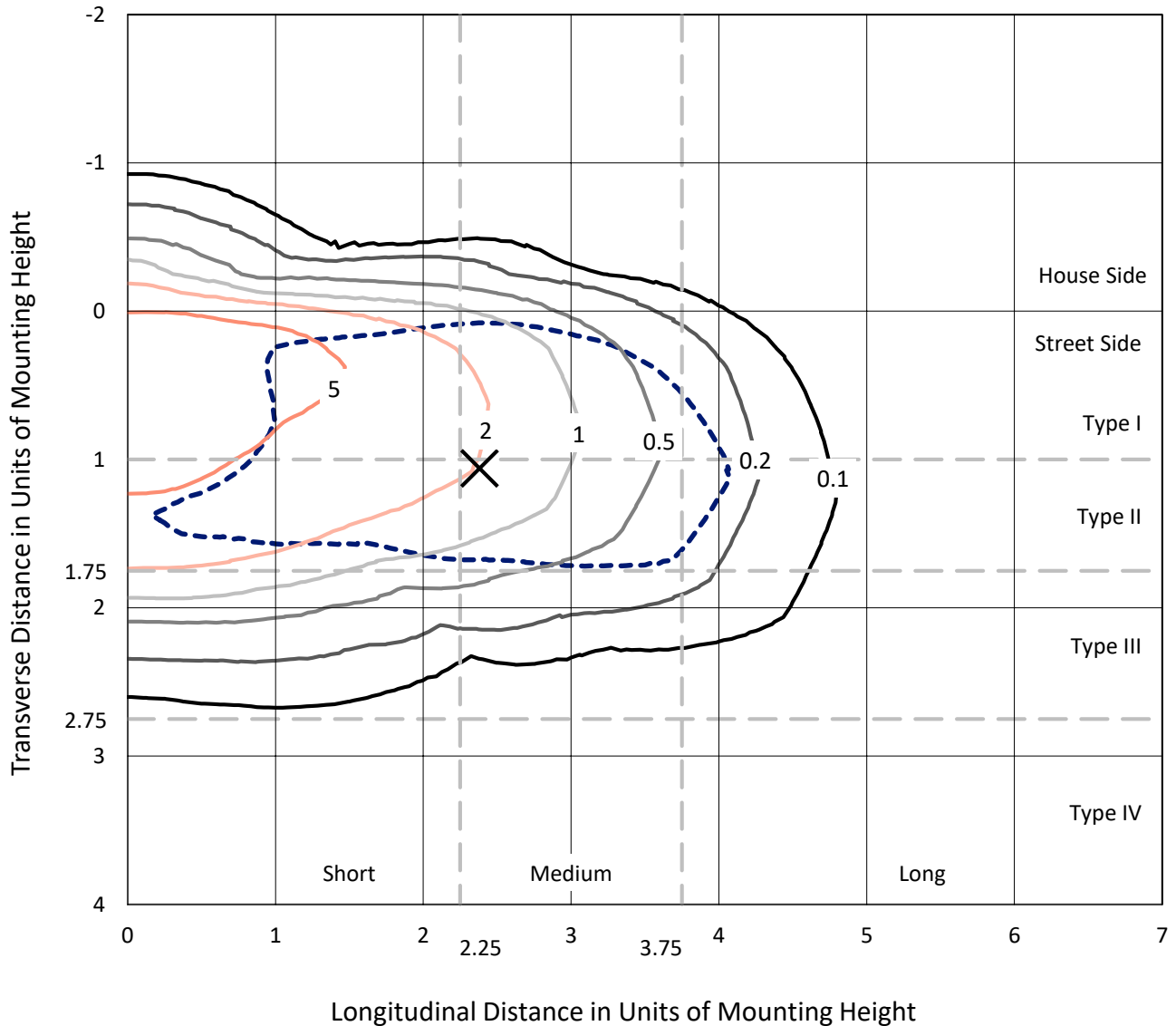
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

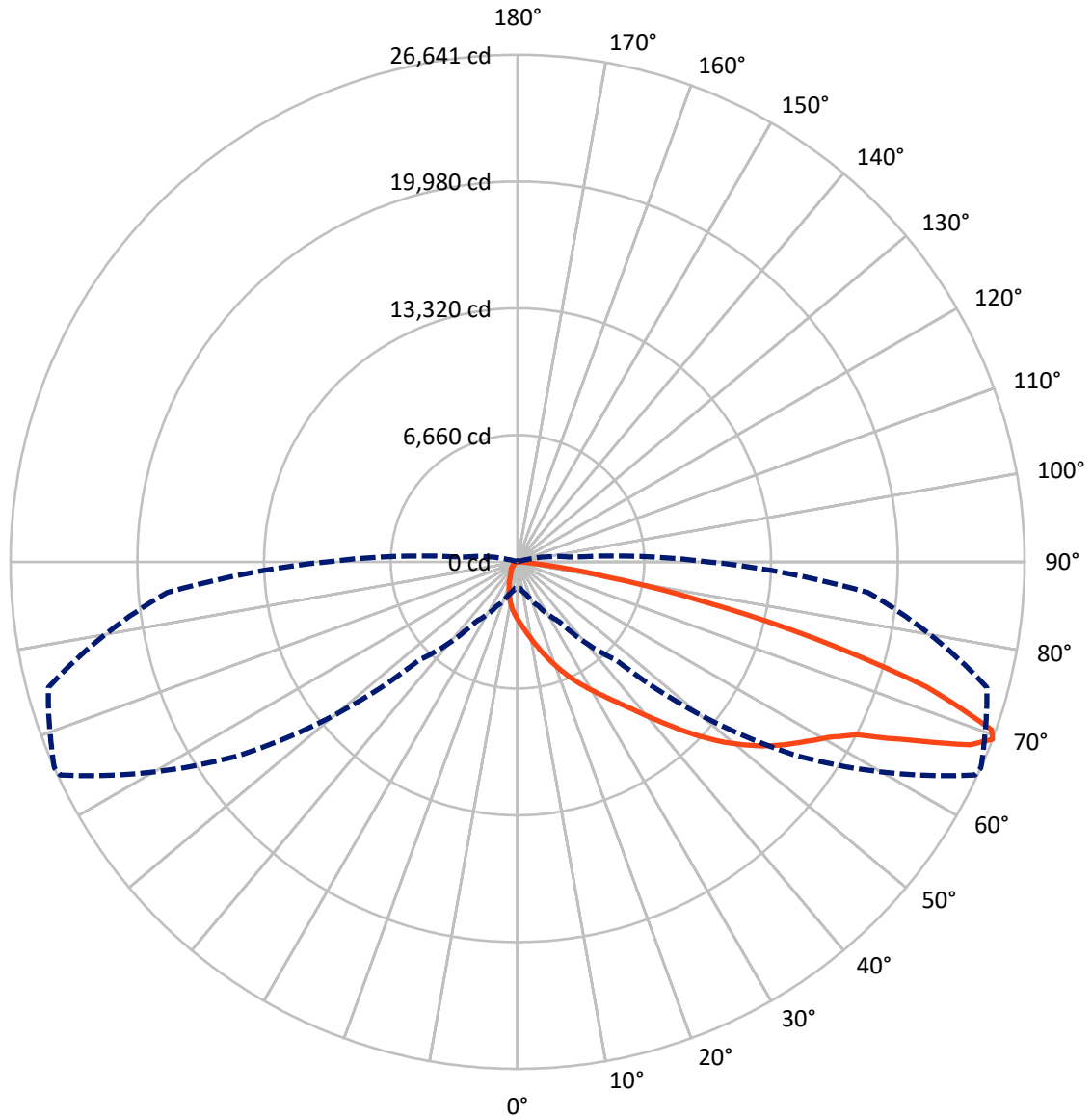
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1606.8	0.0	1606.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	25179.8	0.0	25179.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	26786.7	0.0	26786.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	1.1
10°-20°	877.0	3.3
20°-30°	1527.2	5.7
30°-40°	2679.4	10.0
40°-50°	4484.9	16.7
50°-60°	6592.4	24.6
60°-70°	6768.7	25.3
70°-80°	3341.5	12.5
80°-90°	220.9	0.8
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°	26786.7	100.0
0°-180°	26786.7	100.0

Coefficient of Utilization

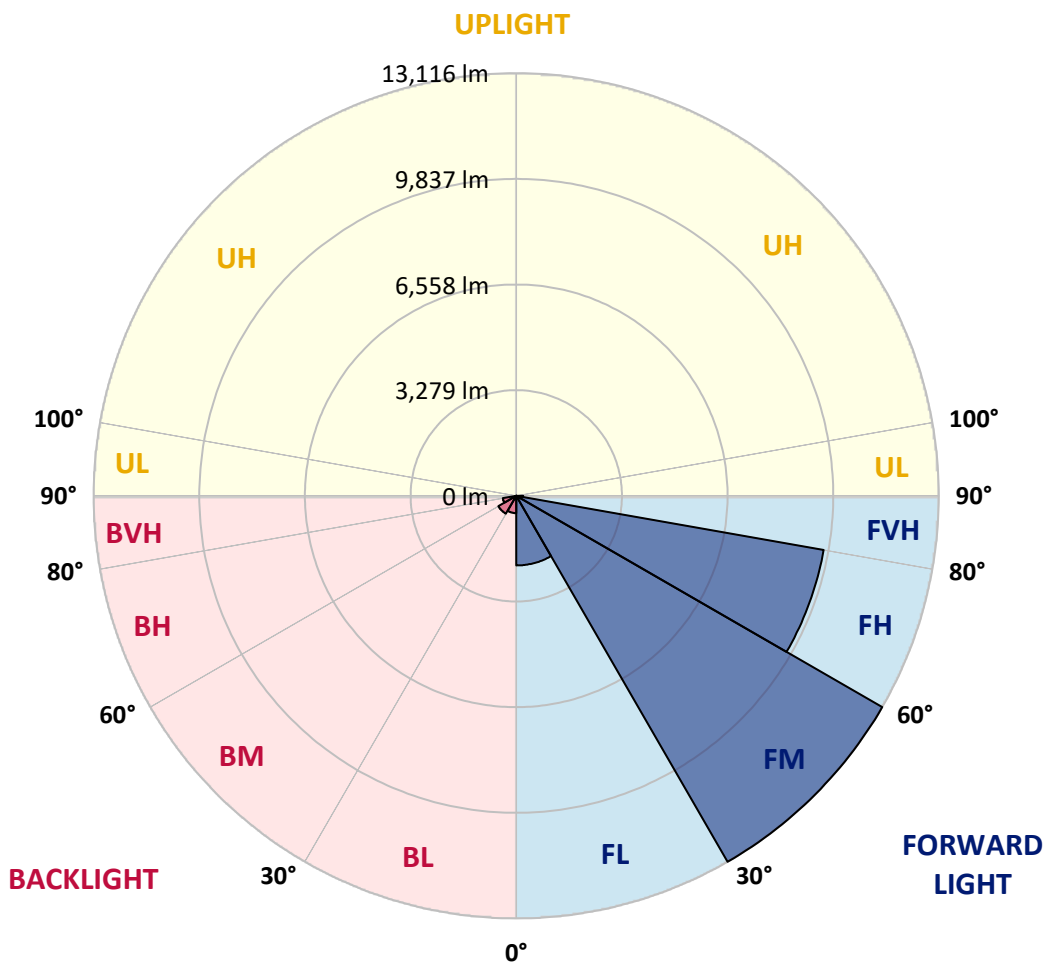


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.4	8.1			
FM (30°-60°)	13116.0	49.0			
FH (60°-80°)	9686.8	36.2			G4/12000
FVH (80°-90°)	215.6	0.8			G2/225
BL (0°-30°)	537.4	2.0	B2/1000		
BM (30°-60°)	640.6	2.4	B1/1000		
BH (60°-80°)	423.4	1.6	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4
2.5°	3587.9	3572.6	3566.2	3538.2	3489.9	3453.0	3381.7	3299.1	3283.8	3203.6	3105.7
5°	4053.5	4040.8	4031.9	3992.4	3942.9	3850.0	3720.1	3566.2	3537.0	3384.3	3188.3
7.5°	4378.0	4400.8	4400.8	4375.4	4313.1	4243.1	4084.1	3874.1	3837.2	3603.1	3299.1
10°	4567.6	4595.5	4617.1	4638.7	4629.9	4601.8	4451.8	4215.1	4170.5	3860.1	3427.5
12.5°	4585.4	4613.3	4674.4	4764.7	4852.5	4916.1	4822.0	4593.0	4542.0	4157.9	3580.2
15°	4486.1	4515.4	4609.5	4785.1	4997.6	5183.3	5213.9	5011.5	4959.4	4512.8	3771.1
17.5°	4313.1	4332.2	4467.1	4710.0	5043.4	5384.3	5568.8	5460.6	5412.3	4918.7	3983.6
20°	4184.6	4198.6	4316.9	4577.7	5015.4	5510.3	5904.7	5937.8	5886.9	5353.8	4213.9
22.5°	4404.6	4430.1	4433.9	4557.3	4939.1	5572.6	6199.9	6407.3	6369.1	5815.7	4440.3
25°	5006.4	5035.8	4939.1	4862.7	5003.9	5600.7	6453.0	6888.1	6857.7	6313.1	4668.1
27.5°	5801.7	5832.1	5707.5	5479.7	5343.6	5706.2	6678.3	7376.7	7375.4	6839.8	4913.5
30°	6582.9	6613.3	6486.2	6258.4	5945.4	6005.2	6872.9	7888.2	7895.8	7383.1	5174.4
32.5°	7402.2	7440.4	7309.3	7016.7	6689.7	6521.8	7146.5	8402.2	8445.5	8012.9	5468.3
35°	8333.5	8338.6	8154.1	7847.5	7470.9	7212.6	7585.4	8978.5	9081.6	8792.8	5841.1
37.5°	9247.0	9283.9	9132.5	8649.0	8303.0	8010.4	8238.0	9698.6	9845.0	9745.8	6328.4
40°	9923.9	10001.5	9979.9	9458.2	9129.9	8921.3	9048.5	10554.9	10740.7	10855.1	6942.9
42.5°	10348.8	10407.3	10506.6	10192.3	9894.6	9929.0	10005.3	11552.4	11781.4	12119.8	7649.0
45°	10836.1	10864.1	10946.8	10808.1	10607.1	10953.1	11020.6	12675.8	12916.3	13479.9	8432.7
47.5°	11431.5	11497.7	11520.5	11393.4	11301.7	11859.0	11999.0	13697.5	14034.6	14936.7	9262.3
50°	12189.8	12207.7	12247.1	12164.3	12072.8	12637.7	12876.9	14770.1	15076.6	16398.6	10080.4
52.5°	12931.6	12995.2	13132.6	13080.4	13043.5	13300.5	13659.3	15736.9	16079.2	17617.4	10897.2
55°	13145.3	13200.0	13674.6	13999.0	14299.3	14117.3	14407.4	16603.3	16973.6	18706.5	11683.5
57.5°	12291.6	12402.3	13224.2	14069.0	15314.5	15387.1	15435.5	17492.7	17824.8	19541.1	12501.6
60°	10133.7	10155.5	11504.1	12953.2	15146.6	16495.3	16936.7	18448.2	18726.8	20318.5	13481.2
62.5°	6445.4	6665.5	8145.2	10191.0	13370.5	16335.0	18752.2	19893.6	19995.3	21251.0	14885.8
65°	3070.0	3212.5	4278.7	6296.6	9684.6	14282.8	20005.5	22508.1	22553.9	23099.7	16762.5
67.5°	1699.8	1768.4	2276.1	3389.3	5661.7	10100.7	19499.2	25604.8	25648.1	24987.7	18408.8
69°	1329.5	1388.1	1787.5	2554.8	3838.5	7259.6	17645.4	26511.9	26640.5	25528.5	18467.3
70°	1128.5	1185.8	1539.5	2157.8	3086.6	5609.5	15706.5	26286.8	26422.9	25477.6	18030.8
72.5°	690.8	723.9	1025.4	1519.1	2068.8	2821.9	9686.0	22230.7	22461.0	23370.7	15496.5
75°	465.7	483.5	641.3	1048.4	1479.7	1452.9	5031.9	15669.6	16168.2	18179.7	11445.6
77.5°	333.3	349.9	430.0	678.2	1036.9	959.3	2278.7	9738.1	9845.0	10903.5	6241.8
80°	189.6	204.8	304.1	403.4	703.6	640.0	905.8	4651.5	4705.0	4675.6	2084.0
82.5°	99.2	112.0	166.7	265.9	451.7	418.5	376.6	1557.3	1564.9	1301.6	456.7
85°	19.1	22.9	82.7	181.9	232.8	181.9	154.0	365.2	372.8	329.5	113.3
87.5°	0.0	1.3	33.1	40.7	45.8	47.0	49.7	71.3	76.3	103.0	30.6
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°	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4	3048.4
2.5°	3062.4	3016.6	2928.8	2827.1	2748.2	2670.6	2609.5	2545.8	2522.9	2511.5	2510.2
5°	3092.9	2996.2	2810.5	2619.6	2463.2	2315.5	2210.0	2109.5	2062.4	2040.7	2031.9
7.5°	3143.8	2988.6	2689.7	2398.3	2173.1	1988.6	1842.3	1732.9	1678.2	1655.3	1646.3
10°	3203.6	2978.4	2548.4	2164.2	1876.6	1685.8	1540.8	1432.6	1372.8	1347.4	1334.6
12.5°	3273.6	2960.6	2385.5	1927.6	1623.4	1432.6	1257.0	1123.4	1054.7	1025.4	1011.5
15°	3360.1	2942.9	2215.0	1704.8	1400.8	1168.0	975.9	885.5	871.6	866.4	867.7
17.5°	3445.3	2914.8	2029.3	1484.8	1166.7	912.3	814.3	809.1	811.8	811.8	811.8
20°	3521.7	2851.2	1827.0	1296.4	944.0	769.7	749.3	740.5	734.2	729.0	722.7
22.5°	3581.5	2766.0	1632.4	1109.5	771.0	704.8	673.0	645.1	622.2	606.9	599.3
25°	3622.2	2652.8	1454.2	930.1	693.4	641.3	584.0	536.9	501.3	479.7	470.7
27.5°	3652.8	2530.5	1295.2	778.7	640.0	567.4	492.4	436.4	399.5	380.4	372.8
30°	3674.4	2391.9	1155.2	684.5	580.2	489.8	409.7	355.0	328.3	318.0	313.0
32.5°	3694.7	2237.9	1022.9	640.0	524.2	418.5	343.6	301.5	285.0	272.3	268.5
35°	3745.7	2095.4	897.0	592.9	466.9	357.5	295.2	264.7	248.1	240.4	237.9
37.5°	3866.5	1989.9	776.1	544.6	409.7	309.2	258.3	236.6	221.3	213.8	211.2
40°	4061.2	1936.4	674.3	492.4	353.7	272.3	234.1	213.8	197.2	185.8	183.2
42.5°	4347.4	1944.0	603.1	440.2	309.2	243.0	211.2	187.1	169.2	159.0	156.5
45°	4694.7	2000.0	553.4	389.3	272.3	220.1	185.8	160.3	143.7	134.9	132.3
47.5°	5071.3	2090.4	512.7	343.6	243.0	198.5	160.3	133.6	119.6	112.0	110.7
50°	5468.3	2178.1	470.7	299.0	217.5	176.8	134.9	110.7	99.2	92.9	90.4
52.5°	5870.3	2280.0	432.6	258.3	195.9	151.4	112.0	90.4	81.4	76.3	73.8
55°	6302.9	2356.3	395.7	226.5	174.3	128.5	92.9	75.1	67.4	61.1	59.8
57.5°	6811.8	2474.6	357.5	195.9	148.9	106.8	76.3	59.8	53.5	47.0	45.8
60°	7498.9	2613.3	316.8	173.0	122.1	87.8	62.3	48.3	40.7	35.6	34.4
62.5°	8404.7	2767.3	265.9	151.4	99.2	71.3	49.7	38.2	29.3	22.9	22.9
65°	9553.6	3017.8	217.5	127.2	81.4	58.5	38.2	27.9	16.6	10.2	10.2
67.5°	10224.1	3061.2	175.6	104.3	66.1	49.7	31.8	19.1	5.1	1.3	0.0
69°	10009.1	2810.5	148.9	89.1	57.3	47.0	29.3	14.0	2.5	0.0	0.0
70°	9604.5	2570.0	131.1	78.9	52.2	44.5	27.9	10.2	2.5	0.0	0.0
72.5°	7936.5	1829.6	99.2	58.5	38.2	39.4	25.4	6.3	2.5	0.0	0.0
75°	5781.3	1112.0	71.3	40.7	24.1	29.3	17.8	2.5	1.3	0.0	0.0
77.5°	3216.4	524.2	44.5	22.9	15.3	17.8	8.9	0.0	0.0	0.0	0.0
80°	1044.5	142.5	20.4	12.8	8.9	10.2	3.8	0.0	0.0	0.0	0.0
82.5°	193.4	40.7	11.5	6.3	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	42.0	16.6	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.0	5.1	1.3	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)