

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: P383680

Luminaire Tested: **GLEON-SA9C-735-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47546.2 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

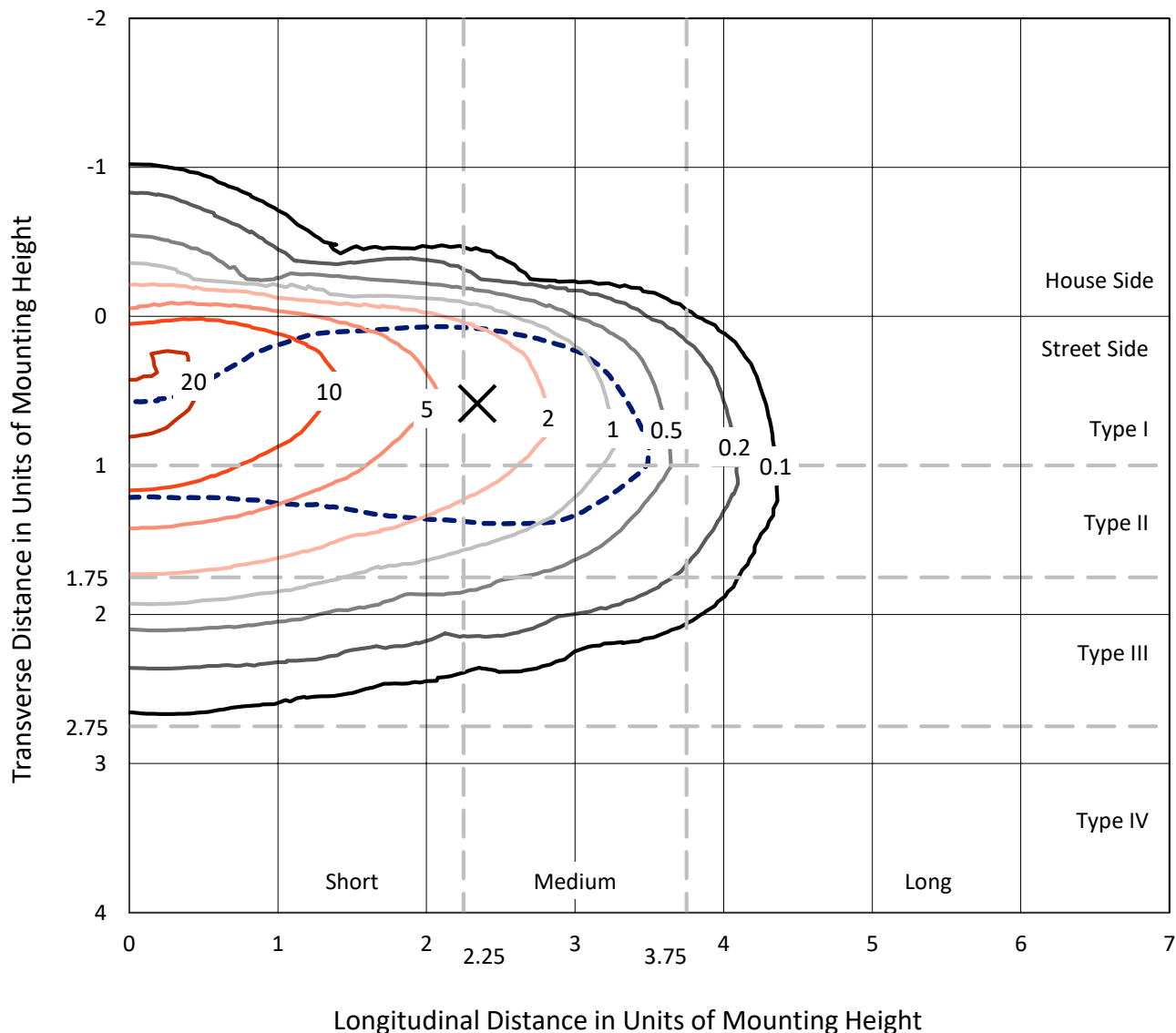
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

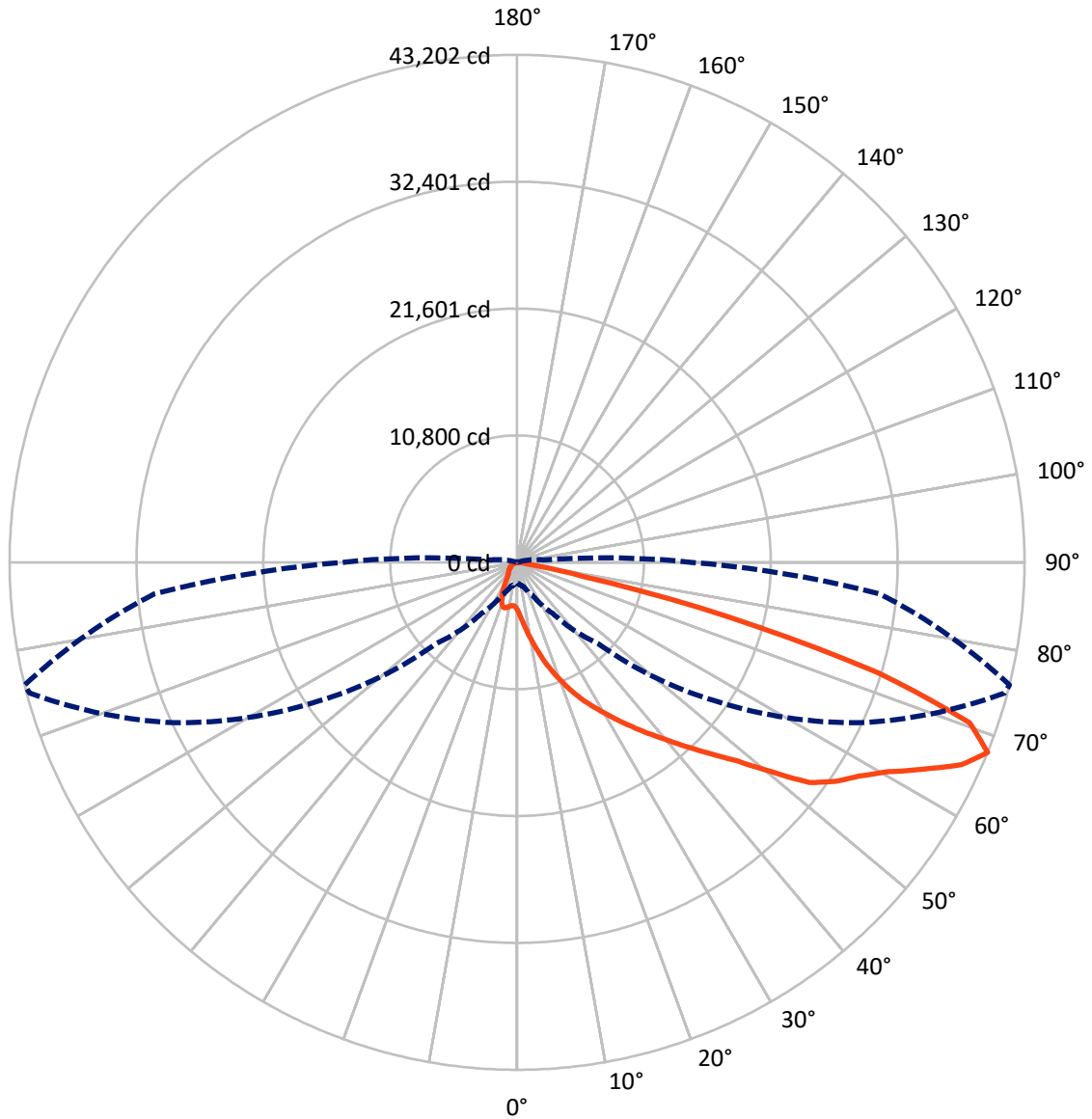
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2361.0	0.0	2361.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	45185.2	0.0	45185.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	47546.2	0.0	47546.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.5	1.1
10°-20°	1988.2	4.2
20°-30°	4045.2	8.5
30°-40°	7021.2	14.8
40°-50°	9920.1	20.9
50°-60°	11249.8	23.7
60°-70°	9330.7	19.6
70°-80°	3379.8	7.1
80°-90°	109.6	0.2
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°	47546.2	100.0
0°-180°	47546.2	100.0

Coefficient of Utilization

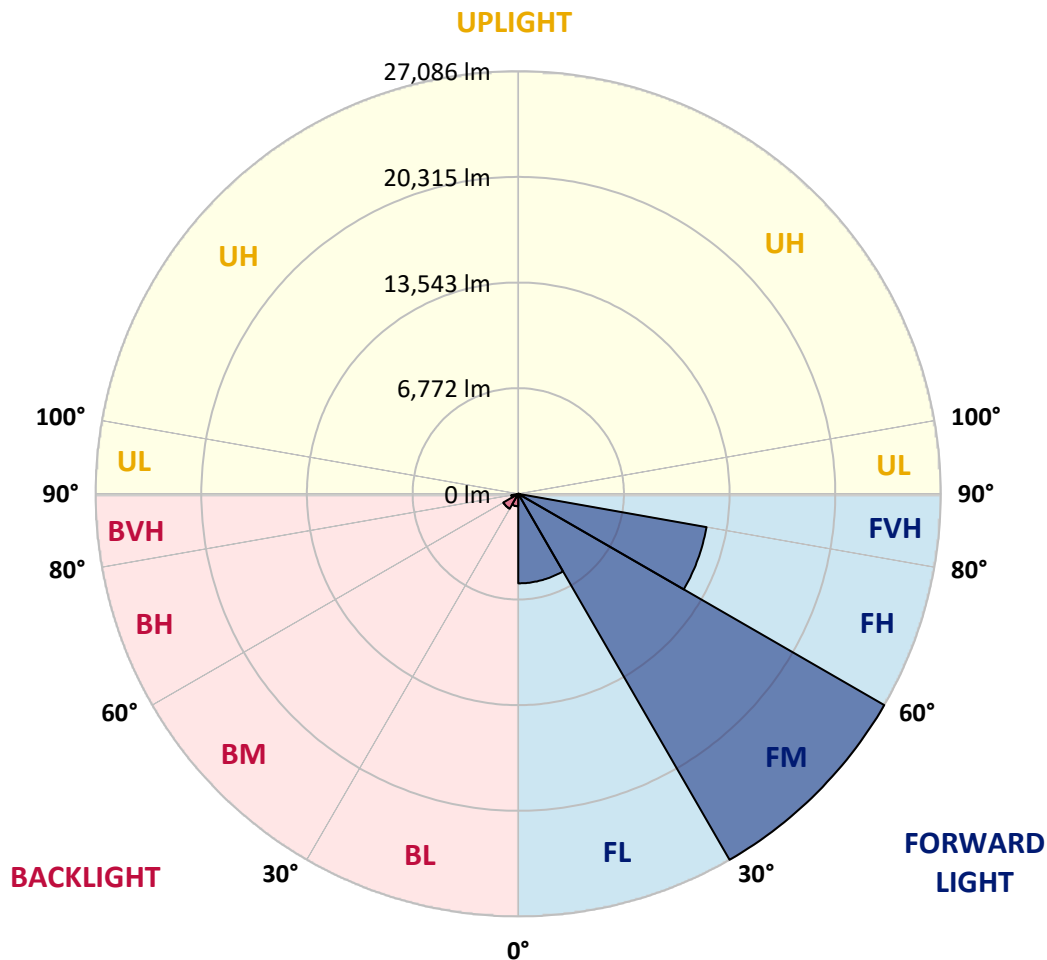


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5738.7	12.1			
FM (30°-60°)	27086.1	57.0			
FH (60°-80°)	12254.2	25.8			G5
FVH (80°-90°)	106.2	0.2			G2/225
BL (0°-30°)	796.3	1.7	B2/1000		
BM (30°-60°)	1105.0	2.3	B2/2500		
BH (60°-80°)	456.3	1.0	B1/500		G1/500
BVH (80°-90°)	3.5	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-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3
2.5°	6020.8	5885.3	5916.6	5829.1	5670.8	5345.8	5068.7	4806.2	4499.9	4489.5	4237.4
5°	8118.7	8004.0	7989.5	7812.4	7524.9	6972.8	6435.3	5822.8	5139.5	5089.5	4554.1
7.5°	10022.8	9931.1	9897.8	9687.4	9152.0	8614.5	7914.5	7014.6	5945.8	5854.1	4981.2
10°	11485.3	11441.5	11449.9	11299.9	10841.5	10341.6	9422.8	8274.9	6860.4	6718.7	5493.7
12.5°	12593.6	12604.0	12679.0	12587.4	12331.2	11960.3	10979.0	9618.7	7872.9	7679.1	6079.1
15°	13408.2	13460.3	13597.8	13712.4	13693.7	13372.8	12472.8	10983.2	8947.8	8733.3	6731.2
17.5°	13935.3	13993.6	14193.6	14447.7	14681.1	14606.1	13914.4	12299.9	10035.3	9787.4	7429.1
20°	14397.8	14466.6	14681.1	15016.5	15452.0	15545.7	15091.5	13576.9	11120.7	10818.6	8149.9
22.5°	15399.9	15397.7	15529.0	15724.8	16139.4	16381.1	16093.6	14762.3	12193.6	11879.1	8885.3
25°	17212.3	17143.5	17097.7	16943.5	17035.2	17185.3	17024.9	15870.7	13272.8	12954.0	9631.2
27.5°	19366.5	19408.1	19037.3	18622.8	18301.9	18147.8	17885.2	16897.7	14310.2	13960.3	10360.3
30°	21639.4	21651.9	21214.4	20685.2	19979.0	19393.5	18939.4	17879.0	15377.0	14995.7	11068.6
32.5°	23689.3	23608.1	23174.8	22453.9	21562.3	20903.9	19960.2	18974.8	16506.1	16137.4	11856.2
35°	25314.3	25218.5	24691.4	24035.1	23110.2	22447.7	21312.3	20068.5	17693.5	17333.1	12645.7
37.5°	26501.8	26389.3	25847.7	25172.7	24374.8	23989.3	22881.0	21258.1	18989.4	18601.9	13477.0
40°	26914.4	26816.4	26476.8	25983.1	25341.4	25253.9	24545.6	22626.8	20399.8	19987.3	14418.6
42.5°	26668.5	26572.7	26451.9	26285.2	26018.5	26101.9	26116.4	24187.3	21966.5	21560.2	15458.2
45°	25693.5	25608.1	25733.1	25976.9	26308.1	26720.6	27549.8	25864.3	23716.5	23283.1	16660.3
47.5°	24258.1	24195.6	24541.4	25149.7	26118.5	27256.0	28860.1	27626.8	25681.0	25278.9	18160.2
50°	22216.5	22206.0	22897.7	24008.1	25497.7	27514.3	30214.3	29630.9	28410.2	27987.2	20245.6
52.5°	19037.3	19058.2	20418.6	22195.6	24408.1	27339.3	31085.1	32205.9	31585.1	31145.5	22051.9
55°	16010.2	16135.2	17099.9	19662.3	22737.3	26689.3	31385.1	33408.0	33337.2	32920.5	23056.0
57.5°	13045.7	13272.8	14201.9	16595.7	20297.7	25191.4	31220.5	33928.8	34641.4	34322.6	24381.0
60°	9833.2	9937.4	11008.2	13245.7	17166.5	22458.1	30026.8	34212.2	36424.6	36203.9	26303.9
62.5°	6256.2	6516.6	7466.6	9624.9	13366.5	18662.3	28014.3	34208.0	38655.9	38776.7	28785.1
65°	3295.8	3600.0	4104.1	5964.5	9185.3	14422.8	24987.3	33887.2	41393.3	41562.1	30724.7
67.5°	1777.0	1864.6	2131.2	3095.8	5327.1	9770.7	20539.4	32303.8	42978.7	43201.6	30995.6
70°	1300.0	1347.9	1447.9	1712.5	2681.2	5675.0	14987.4	28714.3	40935.0	40851.7	27539.3
72.5°	997.9	1072.9	1147.9	1254.1	1541.6	3029.1	9331.1	22485.2	32662.2	32112.2	20585.2
75°	787.5	800.0	906.2	1002.1	1156.2	1724.9	4143.7	13095.7	19935.2	18633.2	10674.9
77.5°	629.2	637.5	700.0	783.3	929.1	1133.3	1283.3	5152.0	6364.5	5679.1	2316.7
80°	372.9	393.8	520.8	604.2	770.9	714.6	468.8	1118.7	993.8	900.0	389.6
82.5°	208.3	225.0	293.7	477.0	537.5	341.7	233.4	302.1	233.4	227.1	110.4
85°	0.0	10.4	189.6	295.9	218.7	75.0	97.9	100.0	68.7	64.6	43.8
87.5°	0.0	0.0	58.3	56.3	8.3	12.5	22.9	33.3	27.1	27.1	22.9
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°	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3	4033.3
2.5°	4112.5	4000.0	3787.5	3579.1	3404.2	3260.4	3131.2	3079.1	3037.5	3031.3	2997.9
5°	4295.8	4068.7	3662.5	3329.2	3106.2	2947.9	2812.4	2729.2	2664.6	2639.5	2616.6
7.5°	4572.9	4229.1	3645.8	3262.5	2995.8	2729.2	2479.1	2208.3	2039.5	1975.0	1937.5
10°	4910.4	4441.6	3708.3	3243.7	2777.0	2214.6	1799.9	1456.2	1316.6	1270.8	1258.3
12.5°	5304.1	4706.2	3816.6	3127.0	2310.4	1572.9	1241.7	1125.0	1093.7	1079.2	1079.2
15°	5756.2	4995.8	3893.7	2789.5	1708.3	1189.6	1075.0	1020.8	987.5	968.7	970.9
17.5°	6218.7	5279.1	3856.2	2300.0	1260.4	1058.3	972.9	914.6	868.8	850.0	845.8
20°	6685.3	5541.6	3647.8	1712.5	1066.6	960.4	864.6	800.0	754.2	735.4	731.3
22.5°	7168.7	5764.5	3281.2	1256.2	958.3	852.1	758.3	693.7	650.0	633.4	625.0
25°	7639.5	5945.8	2768.7	1016.7	856.3	750.0	660.4	600.0	560.4	543.7	541.7
27.5°	8079.1	6060.4	2175.0	897.9	766.7	658.3	577.1	522.9	489.6	477.0	475.0
30°	8474.9	6070.8	1608.3	810.4	687.5	579.1	504.2	456.3	427.1	414.5	410.4
32.5°	8874.9	5983.2	1170.9	731.3	614.5	510.4	437.5	400.0	379.1	368.7	368.7
35°	9252.0	5781.2	912.5	662.5	543.7	443.8	385.4	358.4	345.8	335.5	335.5
37.5°	9620.7	5491.7	775.0	602.1	477.0	387.5	339.5	322.9	312.5	302.1	302.1
40°	9995.7	5127.1	704.2	545.8	422.9	343.7	302.1	287.5	277.0	268.8	266.7
42.5°	10456.2	4706.2	658.3	493.7	375.0	304.2	266.7	250.0	241.6	233.4	229.2
45°	10989.5	4343.7	620.8	441.6	335.5	270.8	231.2	214.5	202.1	191.6	189.6
47.5°	11758.2	4081.2	570.9	385.4	297.9	235.4	200.0	181.3	162.5	152.1	150.0
50°	12739.5	3864.5	506.2	335.5	260.4	200.0	166.7	143.7	127.1	116.6	116.6
52.5°	13227.0	3581.2	447.9	291.7	218.7	168.7	135.4	108.3	100.0	89.6	89.6
55°	13422.8	3364.6	389.6	247.9	181.3	139.5	106.3	83.4	77.0	70.8	68.7
57.5°	13972.7	3302.1	339.5	210.4	150.0	110.4	81.2	62.5	58.3	50.0	50.0
60°	14858.2	3333.3	293.7	179.1	120.8	85.4	60.5	47.9	43.8	35.4	35.4
62.5°	15814.4	3293.7	247.9	154.2	93.7	62.5	41.6	35.4	35.4	20.9	18.7
65°	15997.7	2933.4	212.5	127.1	72.9	45.8	27.1	22.9	31.2	4.2	0.0
67.5°	14847.8	2274.9	183.3	97.9	54.1	35.4	20.9	10.4	27.1	0.0	0.0
70°	11872.8	1445.9	147.9	70.8	41.6	29.2	16.7	4.2	20.9	0.0	0.0
72.5°	8395.8	839.6	116.6	50.0	35.4	22.9	12.5	0.0	12.5	0.0	0.0
75°	4245.8	447.9	72.9	37.5	27.1	16.7	8.3	0.0	2.0	0.0	0.0
77.5°	918.8	208.3	45.8	27.1	18.7	10.4	4.2	0.0	0.0	0.0	0.0
80°	200.0	91.7	29.2	16.7	10.4	6.2	0.0	0.0	0.0	0.0	0.0
82.5°	72.9	47.9	14.6	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.6	25.0	8.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.9	8.3	2.0	2.0	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)