

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: P192673

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192673
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA 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: 23554.1 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 279
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: 25 FT



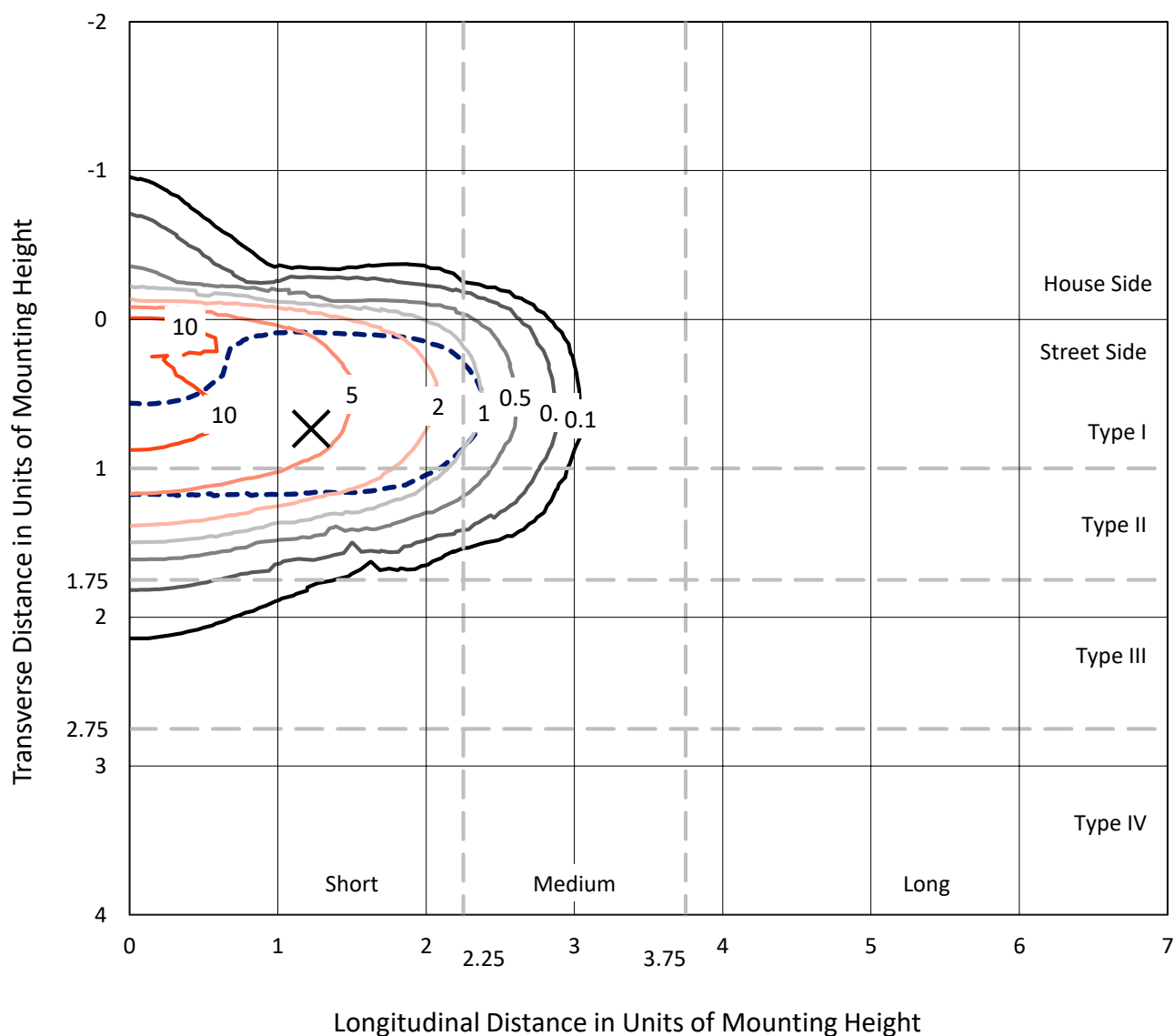
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

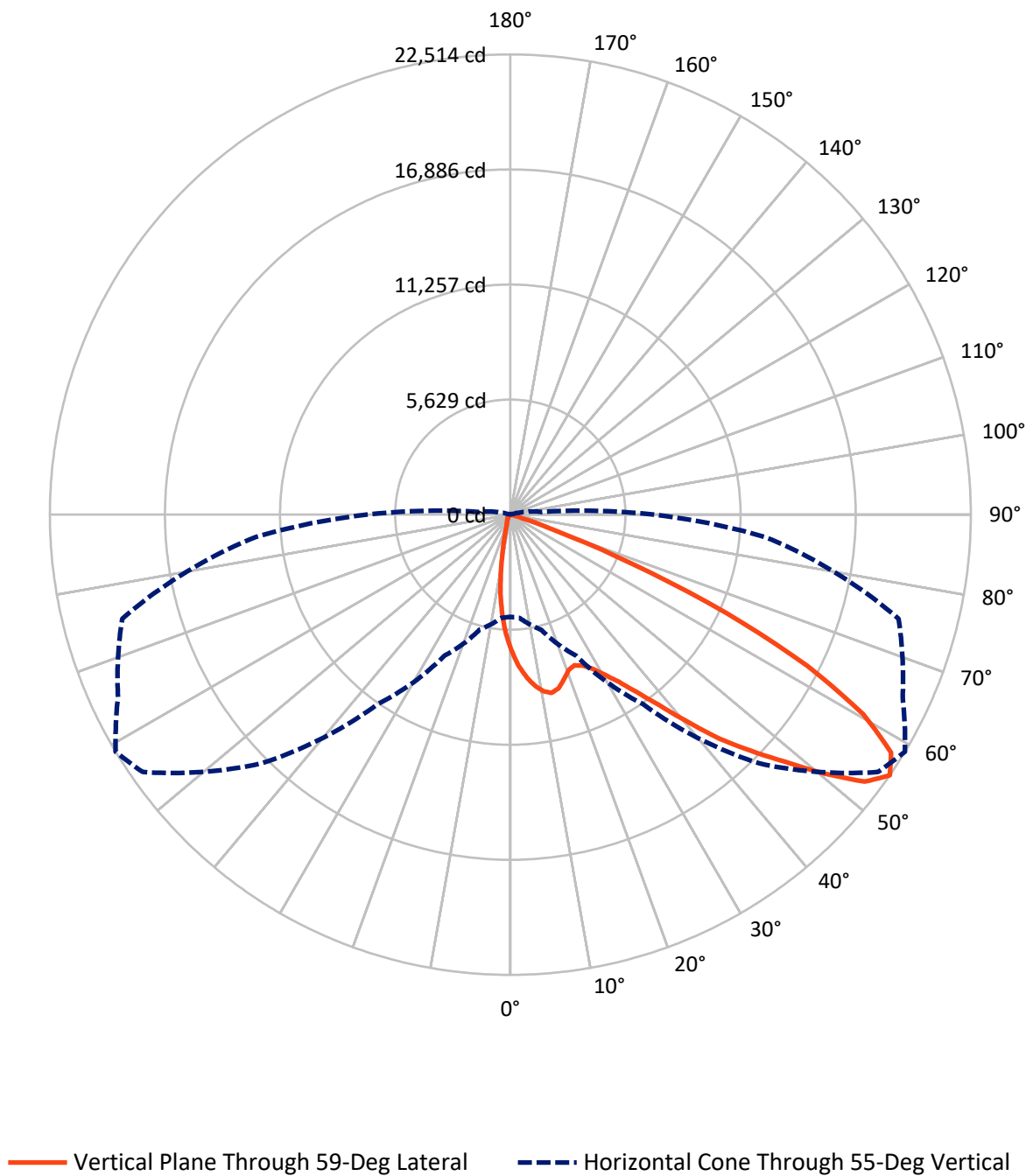


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1315.6	0.0	1315.6
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	22238.5	0.0	22238.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	23554.1	0.0	23554.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.4	2.4
10°-20°	1329.7	5.6
20°-30°	2262.6	9.6
30°-40°	3891.2	16.5
40°-50°	6007.7	25.5
50°-60°	6039.6	25.6
60°-70°	3097.1	13.1
70°-80°	335.6	1.4
80°-90°	35.1	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°	23554.1	100.0
0°-180°	23554.1	100.0

Coefficient of Utilization



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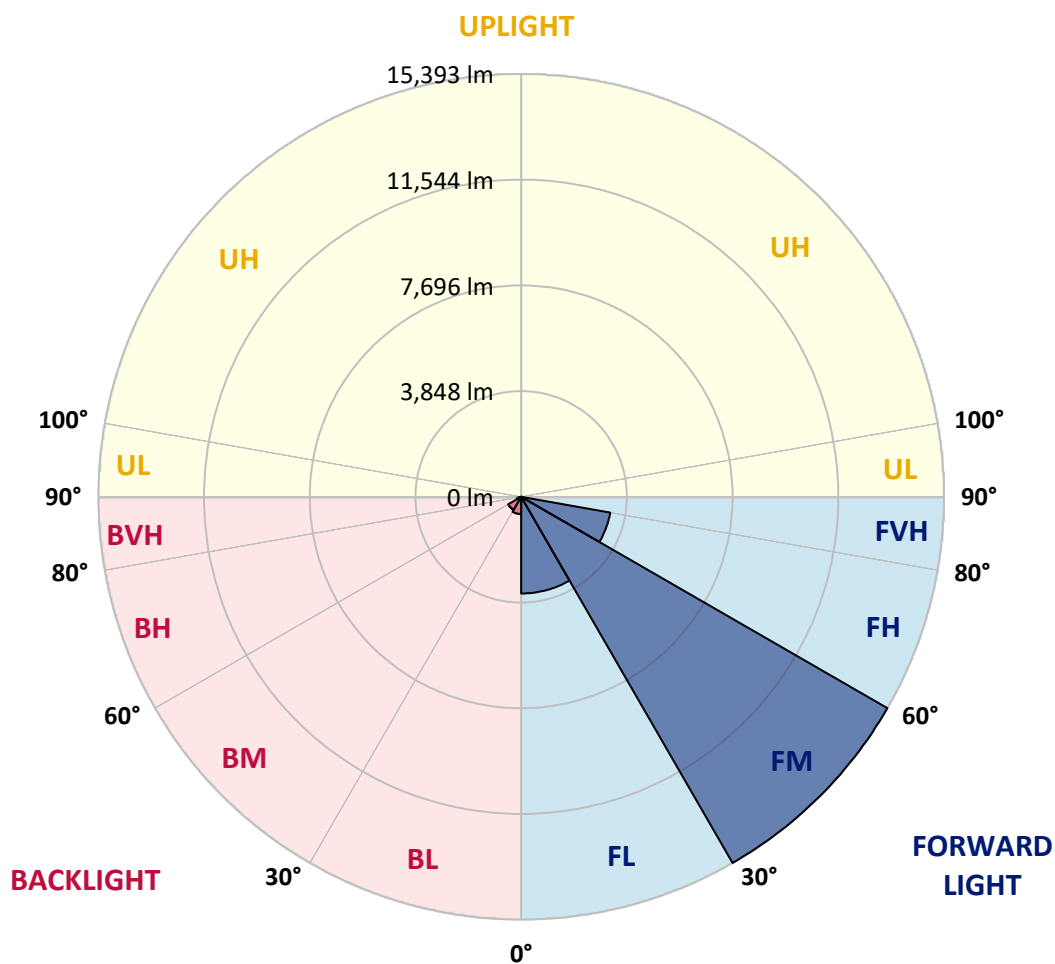
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3519.8	14.9			
FM	(30°-60°)	15392.5	65.3			
FH	(60°-80°)	3291.8	14.0			G2/5000
FVH	(80°-90°)	34.4	0.1			G1/100
BL	(0°-30°)	627.9	2.7	B2/1000		
BM	(30°-60°)	546.0	2.3	B1/1000		
BH	(60°-80°)	140.9	0.6	B1/500		G1/500
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: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4
2.5°	7845.3	7761.9	7736.8	7720.2	7643.7	7547.8	7417.2	7356.0	7230.9	7029.3	6781.9
5°	8564.0	8548.7	8493.0	8462.4	8380.4	8244.1	8035.7	7935.6	7736.8	7397.7	6954.3
7.5°	8249.7	8345.7	8422.1	8550.0	8711.2	8705.7	8530.5	8426.3	8203.9	7756.4	7146.1
10°	7036.3	7114.1	7239.2	7529.7	8121.9	8644.5	8850.2	8775.1	8597.3	8085.7	7331.0
12.5°	6798.5	6790.3	6812.6	6897.3	7207.3	7952.3	8796.0	8947.6	8911.4	8387.4	7506.1
15°	6925.1	6915.3	6912.7	6941.8	7016.8	7331.0	8388.8	8823.9	9103.3	8666.8	7654.8
17.5°	7279.5	7237.9	7215.6	7192.0	7169.7	7247.6	7899.5	8477.8	9132.4	8911.4	7778.6
20°	7887.0	7817.5	7735.4	7602.0	7476.9	7438.1	7693.7	8121.9	9028.2	9097.7	7859.1
22.5°	8650.0	8561.1	8419.3	8176.1	7921.8	7774.4	7795.2	8009.2	8872.5	9300.5	7896.7
25°	9507.7	9393.8	9204.8	8866.9	8493.0	8231.7	8095.4	8170.5	8801.6	9538.4	7939.8
27.5°	10426.5	10300.1	10052.6	9592.5	9168.6	8815.5	8537.5	8527.8	8922.5	9849.7	8009.2
30°	11337.0	11317.5	10995.1	10508.5	9947.0	9517.5	9117.1	9065.7	9260.3	10280.6	8146.9
32.5°	12551.9	12406.0	12011.2	11510.8	10863.0	10347.3	9873.3	9753.8	9778.8	10782.4	8359.5
35°	14083.7	13923.8	13367.9	12677.1	11952.8	11344.0	10820.0	10657.2	10596.1	11603.9	8718.3
37.5°	15073.4	15070.5	14721.7	14018.4	13241.3	12569.9	12000.1	11809.7	11686.0	12596.4	9274.3
40°	15099.7	15165.0	15211.0	15204.1	14650.8	14032.2	13526.3	13291.4	13003.6	13922.5	9992.9
42.5°	14289.4	14457.6	14862.1	15548.8	15876.8	15630.7	15204.1	14973.3	14545.1	15341.6	10868.6
45°	13194.0	13310.8	14018.4	15283.3	16541.2	17215.4	16890.2	16477.3	15912.9	16822.0	11653.9
47.5°	12703.3	12724.3	13181.6	14570.2	16591.2	18513.7	18711.0	18039.7	17155.7	18014.6	12268.2
50°	11236.9	11274.5	11905.6	13334.4	16004.8	19126.7	20540.3	19903.6	18510.9	18933.4	12492.1
52.5°	8469.3	8522.2	9322.9	11303.6	14392.2	18865.4	21849.7	21695.4	19995.4	19382.5	12504.6
55°	4997.1	5066.6	5831.1	7609.0	11320.4	17202.9	21947.0	22514.2	21167.3	19648.0	12485.2
57.5°	2333.9	2382.5	2820.3	3919.9	7040.4	13595.7	20482.0	21952.6	21813.6	19788.4	12622.7
60°	1239.9	1253.8	1359.4	1697.3	3181.7	8620.9	17622.7	19823.1	21224.2	19983.0	12791.0
62.5°	948.1	952.2	946.6	986.9	1337.3	3826.7	13320.6	16296.6	18851.5	19837.0	12604.7
65°	821.5	828.4	789.5	779.8	857.6	1364.9	7913.4	11616.5	14813.5	17867.2	11335.6
67.5°	736.7	739.4	692.2	651.9	665.8	738.0	3122.0	6359.3	9805.3	13096.8	8216.4
70°	678.3	675.6	624.1	560.2	542.2	504.6	992.5	2331.0	4685.8	6641.6	3821.2
72.5°	600.5	601.9	576.9	493.5	450.3	353.0	460.1	679.7	1398.4	1809.8	895.2
75°	532.4	525.4	494.8	442.1	371.2	232.1	228.0	302.9	430.9	428.1	193.2
77.5°	385.0	378.0	387.8	362.7	284.9	150.1	113.9	146.0	175.2	169.6	54.2
80°	282.2	277.9	250.2	301.7	251.7	102.8	70.9	77.8	90.3	76.5	16.7
82.5°	193.2	191.9	176.6	166.8	143.1	62.5	44.5	48.6	58.4	43.0	8.3
85°	30.6	34.8	127.9	101.5	84.7	27.8	30.6	33.4	38.9	23.6	2.7
87.5°	0.0	0.0	59.8	52.8	16.7	11.2	18.0	19.4	19.4	12.4	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4	6630.4
2.5°	6655.4	6516.4	6259.3	5993.8	5747.7	5454.4	5252.8	5101.5	4926.3	4879.0	4981.7
5°	6701.3	6438.5	5885.4	5283.4	4717.7	4090.7	3611.2	3231.8	2888.5	2771.7	2877.4
7.5°	6773.5	6382.9	5480.9	4489.8	3505.6	2527.0	1857.1	1416.4	1135.6	1052.2	1096.8
10°	6845.8	6302.4	5012.4	3550.2	2204.6	1230.1	800.7	639.3	579.6	567.2	574.0
12.5°	6905.6	6193.9	4441.1	2524.3	1178.7	658.9	524.0	497.6	489.3	489.3	492.1
15°	6941.8	6029.9	3764.2	1605.4	678.3	497.6	457.4	448.9	448.9	450.3	453.1
17.5°	6937.6	5821.5	3023.3	971.7	507.4	440.7	417.1	410.0	408.6	411.5	412.8
20°	6886.2	5548.9	2279.5	640.8	442.1	401.7	378.0	365.6	364.2	367.0	369.8
22.5°	6788.9	5212.5	1630.4	493.5	398.9	364.2	335.0	323.9	323.9	326.6	329.4
25°	6670.8	4801.2	1114.8	418.4	360.0	323.9	296.1	286.4	289.1	296.1	297.5
27.5°	6523.4	4338.2	757.6	358.6	312.7	283.5	262.7	255.7	262.7	272.5	275.3
30°	6396.9	3855.9	540.8	310.0	265.5	244.6	232.1	232.1	241.9	259.9	264.1
32.5°	6299.6	3388.9	417.1	273.8	230.7	212.6	205.7	212.6	228.0	246.1	250.2
35°	6287.1	3003.9	353.0	244.6	205.7	187.6	184.8	197.4	212.6	226.6	229.3
37.5°	6382.9	2648.0	318.3	221.0	183.4	166.8	164.0	179.3	194.6	211.3	215.5
40°	6565.1	2368.6	293.3	198.8	165.4	147.4	141.8	152.9	173.7	196.0	201.6
42.5°	6801.4	2137.8	265.5	176.6	147.4	122.4	115.4	127.9	150.1	173.7	180.8
45°	7026.6	1939.1	234.9	151.6	123.7	94.5	91.8	108.3	119.5	143.1	148.7
47.5°	7150.3	1763.9	208.4	123.7	95.9	76.5	76.5	80.7	91.8	119.5	125.1
50°	7108.5	1623.6	180.8	91.8	66.7	58.4	58.4	57.1	73.6	95.9	100.1
52.5°	7025.2	1543.0	155.7	70.9	45.9	41.7	37.4	41.7	51.5	61.1	62.5
55°	7012.7	1529.0	130.7	57.1	32.0	27.8	20.9	20.9	20.9	19.4	16.7
57.5°	7109.9	1551.3	109.8	45.9	23.6	18.0	11.2	0.0	0.0	0.0	0.0
60°	7210.0	1574.9	94.5	32.0	16.7	9.8	1.4	0.0	0.0	0.0	0.0
62.5°	7043.2	1522.1	79.2	19.4	12.4	4.2	0.0	0.0	0.0	0.0	0.0
65°	6187.1	1295.5	62.5	13.8	8.3	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4400.9	867.4	41.7	8.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2008.6	362.7	26.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	429.5	112.5	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	87.5	82.1	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	27.8	129.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.7	93.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.7	13.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)