

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: P192027

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL4-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47378 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 575
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

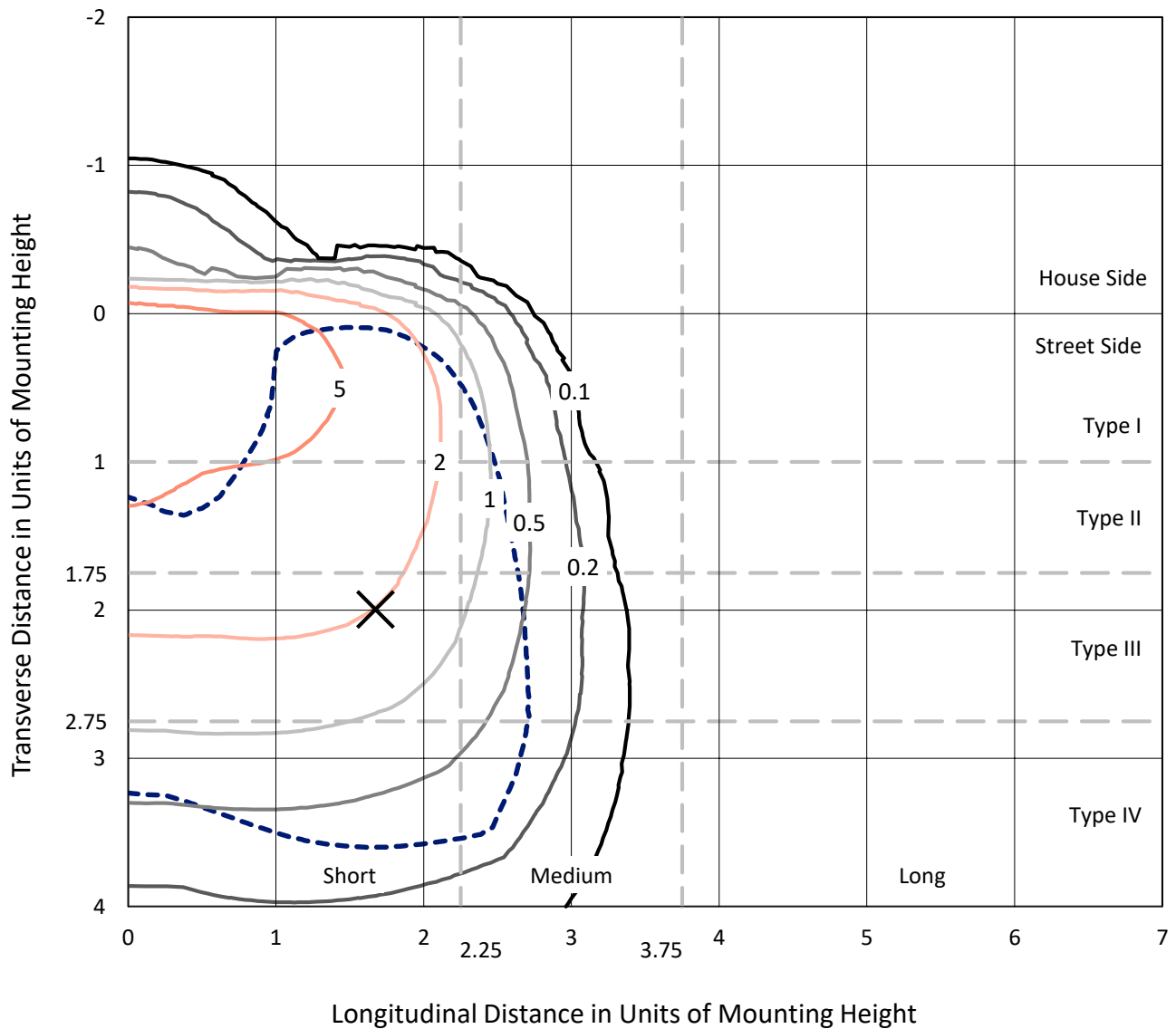


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

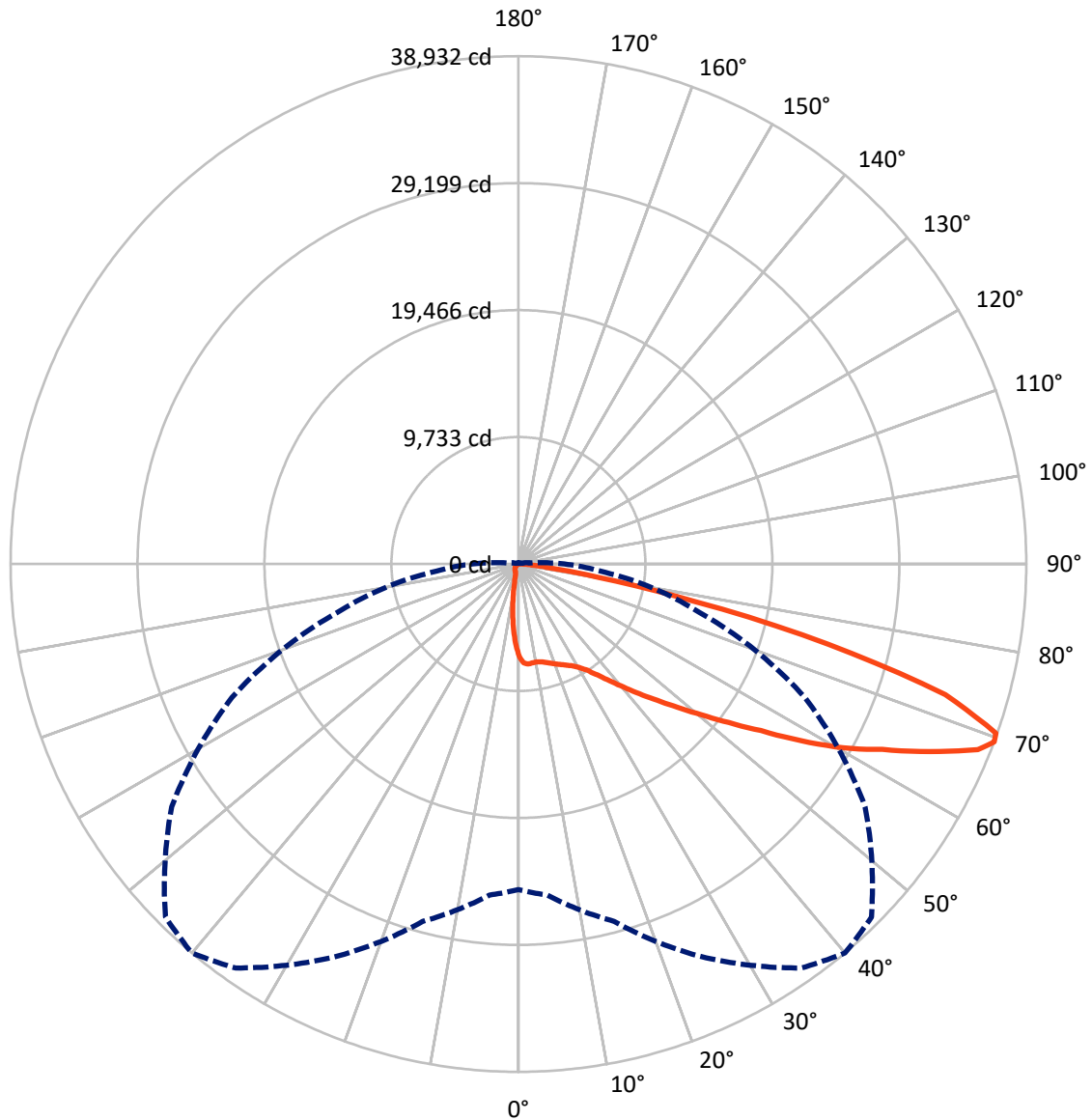


Based on 30 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2771.9	0.0	2771.9
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	44606.1	0.0	44606.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	47378.0	0.0	47378.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	573.9	1.2
10°-20°	1411.4	3.0
20°-30°	2377.3	5.0
30°-40°	3891.7	8.2
40°-50°	6738.3	14.2
50°-60°	10613.5	22.4
60°-70°	13860.8	29.3
70°-80°	7138.9	15.1
80°-90°	772.2	1.6
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°	47378.0	100.0
0°-180°	47378.0	100.0



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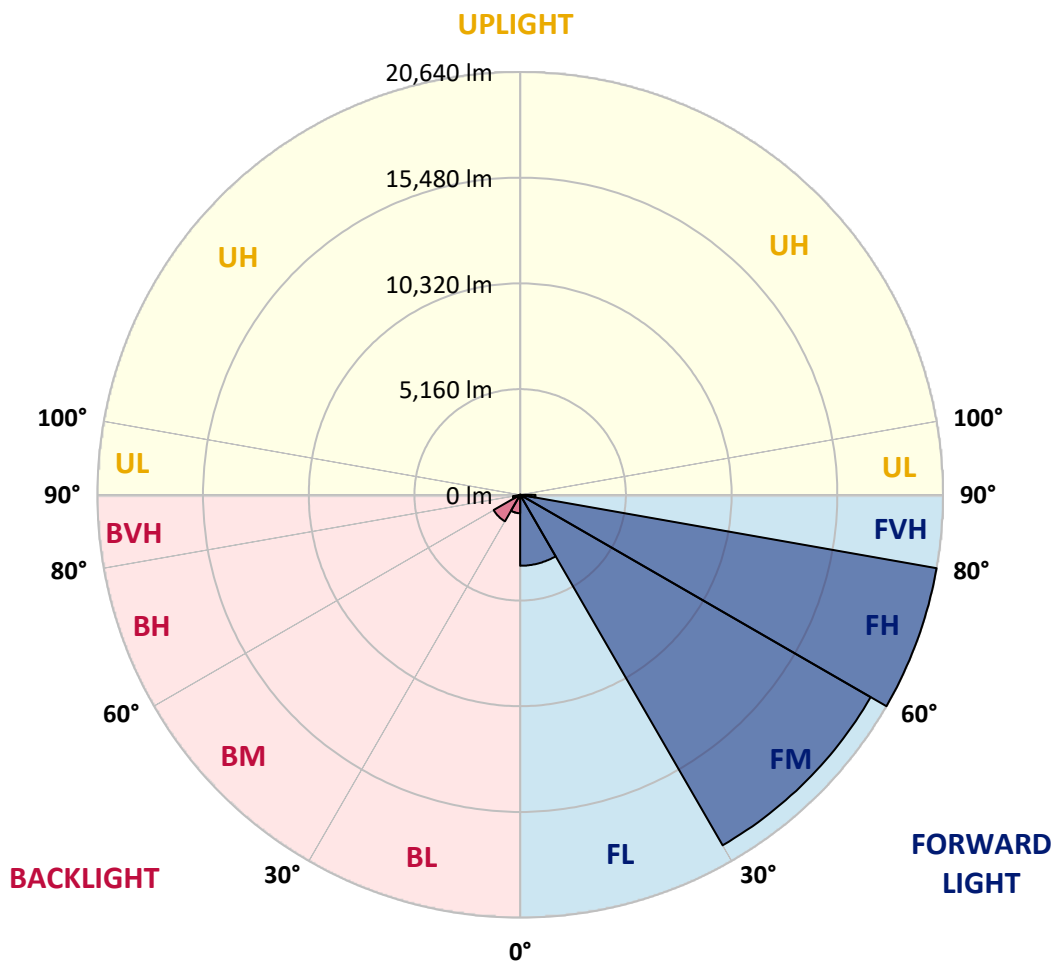
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3464.7	7.3			
FM	(30°-60°)	19753.6	41.7			
FH	(60°-80°)	20639.8	43.6			G5
FVH	(80°-90°)	748.0	1.6			G4/750
BL	(0°-30°)	897.9	1.9	B2/1000		
BM	(30°-60°)	1489.8	3.1	B2/2500		
BH	(60°-80°)	359.9	0.8	B1/500		G1/500
BVH	(80°-90°)	24.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5
2.5°	7772.3	7730.0	7704.6	7670.7	7628.4	7591.8	7577.7	7473.3	7374.6	7239.3	7084.2
5°	7916.1	7902.0	7856.9	7811.7	7761.0	7704.6	7673.6	7549.5	7408.5	7211.1	6940.3
7.5°	7930.2	7913.3	7856.9	7794.8	7724.3	7656.6	7603.1	7479.0	7349.2	7149.0	6819.1
10°	7907.6	7887.9	7845.6	7777.9	7690.5	7625.6	7572.0	7453.6	7343.6	7163.1	6796.5
12.5°	7882.3	7862.5	7842.8	7808.9	7732.8	7687.7	7642.5	7529.7	7431.0	7278.7	6878.3
15°	7907.6	7896.4	7918.9	7904.8	7862.5	7823.0	7777.9	7676.4	7586.1	7459.2	7027.8
17.5°	8014.8	8014.8	8085.3	8093.8	8054.3	7997.9	7933.0	7831.5	7755.3	7648.2	7205.4
20°	8265.8	8257.3	8347.6	8364.5	8268.6	8181.2	8085.3	7961.2	7902.0	7834.3	7380.3
22.5°	8697.3	8657.8	8711.4	8694.4	8505.5	8370.1	8251.7	8099.4	8068.4	8037.4	7574.9
25°	9258.5	9235.9	9272.6	9106.2	8773.4	8590.1	8449.1	8277.1	8277.1	8308.1	7794.8
27.5°	10073.5	9988.9	9864.8	9571.5	9072.3	8838.3	8686.0	8502.7	8550.6	8666.2	8085.3
30°	10908.2	10815.2	10530.4	10079.1	9436.1	9190.8	9013.1	8821.4	8934.2	9145.7	8474.5
32.5°	11731.7	11627.4	11224.1	10654.4	9957.9	9712.5	9540.5	9329.0	9517.9	9873.3	9044.1
35°	12529.8	12436.8	11971.4	11300.2	10651.6	10448.6	10290.6	10107.3	10349.9	10846.2	9847.9
37.5°	13426.6	13325.1	12758.3	12030.7	11494.8	11348.2	11232.6	11049.3	11472.3	12199.9	10967.5
40°	14529.3	14357.3	13593.0	12868.2	12470.6	12400.1	12321.1	12295.8	12952.8	13959.6	12459.3
42.5°	15792.7	15510.7	14467.2	13750.9	13542.2	13593.0	13573.3	13686.1	14805.7	16148.0	14275.5
45°	17056.1	16692.3	15440.2	14692.9	14721.1	14898.7	15008.7	15459.9	17126.6	18658.0	16229.8
47.5°	18127.8	17769.6	16373.7	15710.9	16049.3	16399.0	16698.0	17552.5	19512.5	21128.4	17749.9
50°	19044.3	18705.9	17363.5	16830.5	17591.9	18156.0	18641.0	19907.3	22078.8	23009.4	18815.9
52.5°	19794.5	19568.9	18390.0	18113.7	19354.5	20180.8	20891.5	22408.7	24351.8	24537.9	19645.0
55°	20524.9	20364.1	19492.7	19639.4	21424.5	22549.7	23449.3	25062.5	26309.0	25812.6	20440.3
57.5°	21365.3	21218.6	20750.5	21574.0	24145.9	25561.6	26543.0	27414.4	28032.1	27115.5	21190.4
60°	22222.6	22138.0	22149.3	23722.9	27270.6	28629.9	29171.4	29397.0	29724.1	28342.3	21232.7
62.5°	23040.4	23201.2	23748.3	26114.4	30262.8	31306.2	31579.8	31802.6	31419.0	28536.9	19616.8
65°	24425.1	24687.4	25993.1	29315.2	33553.9	34670.6	34952.6	34188.4	31686.9	26021.3	15956.3
67.5°	25101.9	25581.4	27910.8	32298.9	36746.2	37987.1	37882.8	34343.5	28435.3	19842.4	10239.9
69°	24960.9	25471.4	28353.5	33212.6	37806.6	38931.8	38269.1	32445.6	24224.9	14374.2	6286.1
70°	24402.6	24918.6	28125.1	33178.8	37942.0	38833.1	37552.8	30102.0	20482.6	10510.6	3931.3
72.5°	20378.2	20823.8	24969.4	29989.2	34952.6	34227.9	31416.2	20854.8	9980.4	2862.4	885.5
75°	12543.9	12792.1	17916.3	22592.0	26399.2	24537.9	20931.0	10375.2	2975.2	809.4	490.7
77.5°	6627.3	6740.1	9808.4	13316.6	16734.6	13846.8	10727.8	4046.9	1370.6	507.6	355.3
80°	3917.2	4001.8	5282.1	6088.7	7242.1	6049.2	4289.4	2484.5	981.4	318.7	315.9
82.5°	2242.0	2295.6	3829.7	3384.2	2854.0	2436.6	2134.8	2354.8	589.4	214.3	327.1
85°	823.5	834.8	2154.6	2574.8	1697.7	1009.6	1060.4	1951.5	157.9	135.4	256.6
87.5°	383.5	375.1	1108.3	1576.5	992.7	640.2	826.3	428.7	62.0	87.4	70.5
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°	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5	7078.5
2.5°	6993.9	6889.6	6700.6	6506.0	6308.6	6156.3	6006.9	5888.4	5848.9	5775.6	5781.3
5°	6779.6	6587.8	6193.0	5792.5	5375.2	5031.1	4706.8	4444.5	4317.6	4187.9	4187.9
7.5°	6593.5	6314.3	5696.7	5045.2	4371.2	3804.4	3293.9	2910.4	2698.9	2529.7	2526.8
10°	6523.0	6145.1	5282.1	4348.6	3409.5	2636.8	2030.5	1641.3	1441.1	1311.4	1305.7
12.5°	6554.0	6085.8	4963.4	3705.6	2526.8	1694.9	1176.0	925.0	840.4	800.9	800.9
15°	6644.2	6068.9	4644.7	3076.8	1785.1	1060.4	781.2	713.5	707.9	707.9	707.9
17.5°	6754.2	6074.6	4317.6	2464.8	1215.5	758.6	674.0	665.5	671.2	671.2	671.2
20°	6867.0	6077.4	3965.1	1897.9	857.3	659.9	634.5	631.7	637.3	637.3	640.2
22.5°	7005.2	6091.5	3612.6	1418.5	707.9	623.2	603.5	603.5	606.3	606.3	603.5
25°	7163.1	6119.7	3246.0	1051.9	645.8	597.9	580.9	578.1	580.9	578.1	575.3
27.5°	7360.5	6159.2	2837.0	823.5	617.6	572.5	558.4	558.4	555.6	552.7	549.9
30°	7608.7	6204.3	2377.4	699.4	589.4	549.9	535.8	533.0	530.2	524.5	524.5
32.5°	7986.6	6303.0	1923.3	634.5	558.4	518.9	507.6	507.6	502.0	496.3	493.5
35°	8567.5	6497.6	1517.2	595.0	524.5	485.1	471.0	471.0	465.3	462.5	459.7
37.5°	9371.3	6793.7	1178.8	558.4	490.7	448.4	434.3	431.5	425.8	420.2	417.4
40°	10440.1	7160.3	927.8	524.5	456.9	411.7	400.5	394.8	383.5	375.1	375.1
42.5°	11782.5	7577.7	753.0	487.9	417.4	377.9	369.4	361.0	341.2	332.8	330.0
45°	13186.9	7952.8	637.3	445.6	377.9	344.1	338.4	324.3	298.9	290.5	290.5
47.5°	14199.3	8040.2	561.2	406.1	341.2	307.4	304.6	279.2	256.6	251.0	248.2
50°	14831.0	7868.2	499.2	366.6	307.4	273.6	265.1	234.1	220.0	214.3	211.5
52.5°	15256.9	7560.8	448.4	332.8	276.4	242.5	222.8	200.2	188.9	183.3	183.3
55°	15598.1	7126.5	397.6	301.8	251.0	217.1	188.9	172.0	160.7	155.1	155.1
57.5°	15694.0	6537.1	346.9	276.4	225.6	191.8	160.7	149.5	135.4	132.5	132.5
60°	14997.4	5473.9	307.4	245.4	203.0	166.4	141.0	126.9	112.8	110.0	107.2
62.5°	13161.5	4235.8	270.7	217.1	177.7	143.8	121.3	104.3	93.1	93.1	93.1
65°	10039.6	2839.9	236.9	188.9	155.1	121.3	104.3	84.6	79.0	79.0	81.8
67.5°	6009.7	1545.4	203.0	160.7	132.5	101.5	87.4	73.3	70.5	73.3	73.3
69°	3522.3	908.1	183.3	143.8	115.6	90.2	76.1	64.9	70.5	73.3	73.3
70°	2174.3	612.0	169.2	129.7	104.3	81.8	70.5	62.0	67.7	70.5	70.5
72.5°	606.3	315.9	135.4	101.5	84.6	67.7	56.4	56.4	64.9	67.7	67.7
75°	394.8	234.1	104.3	76.1	64.9	53.6	47.9	53.6	62.0	64.9	64.9
77.5°	327.1	191.8	84.6	62.0	53.6	50.8	45.1	47.9	56.4	59.2	59.2
80°	298.9	135.4	67.7	56.4	47.9	45.1	42.3	39.5	50.8	53.6	53.6
82.5°	284.8	107.2	59.2	50.8	45.1	39.5	36.7	39.5	45.1	47.9	50.8
85°	177.7	70.5	53.6	47.9	39.5	36.7	36.7	36.7	42.3	45.1	45.1
87.5°	64.9	56.4	47.9	39.5	33.8	33.8	33.8	33.8	36.7	42.3	42.3
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)