

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: P269471

Luminaire Tested: **GLEON-AF-07-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-07-LED-E1-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33235.9 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 448
Input Voltage (V): NR
Input Current (A_{in}): 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

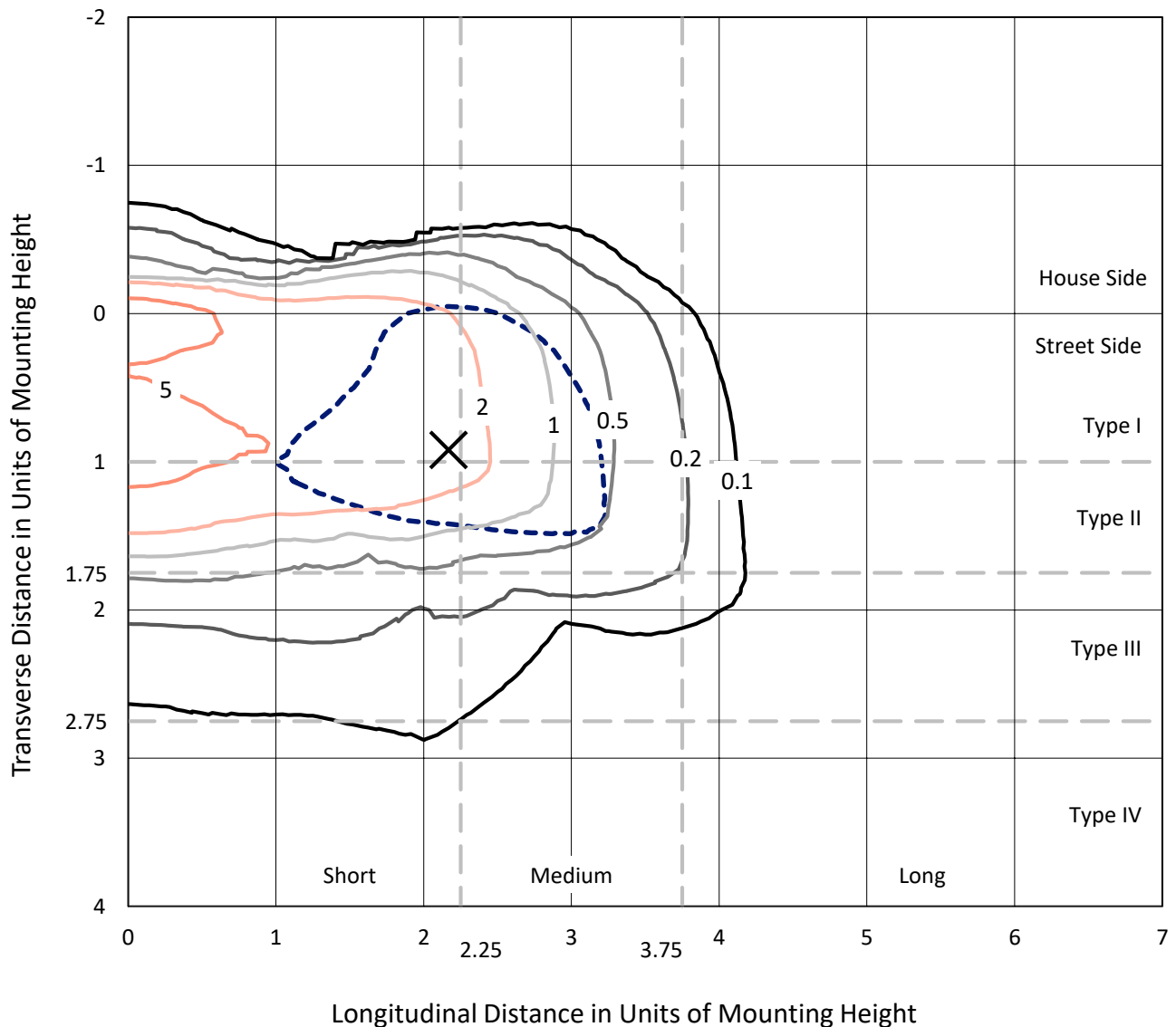


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

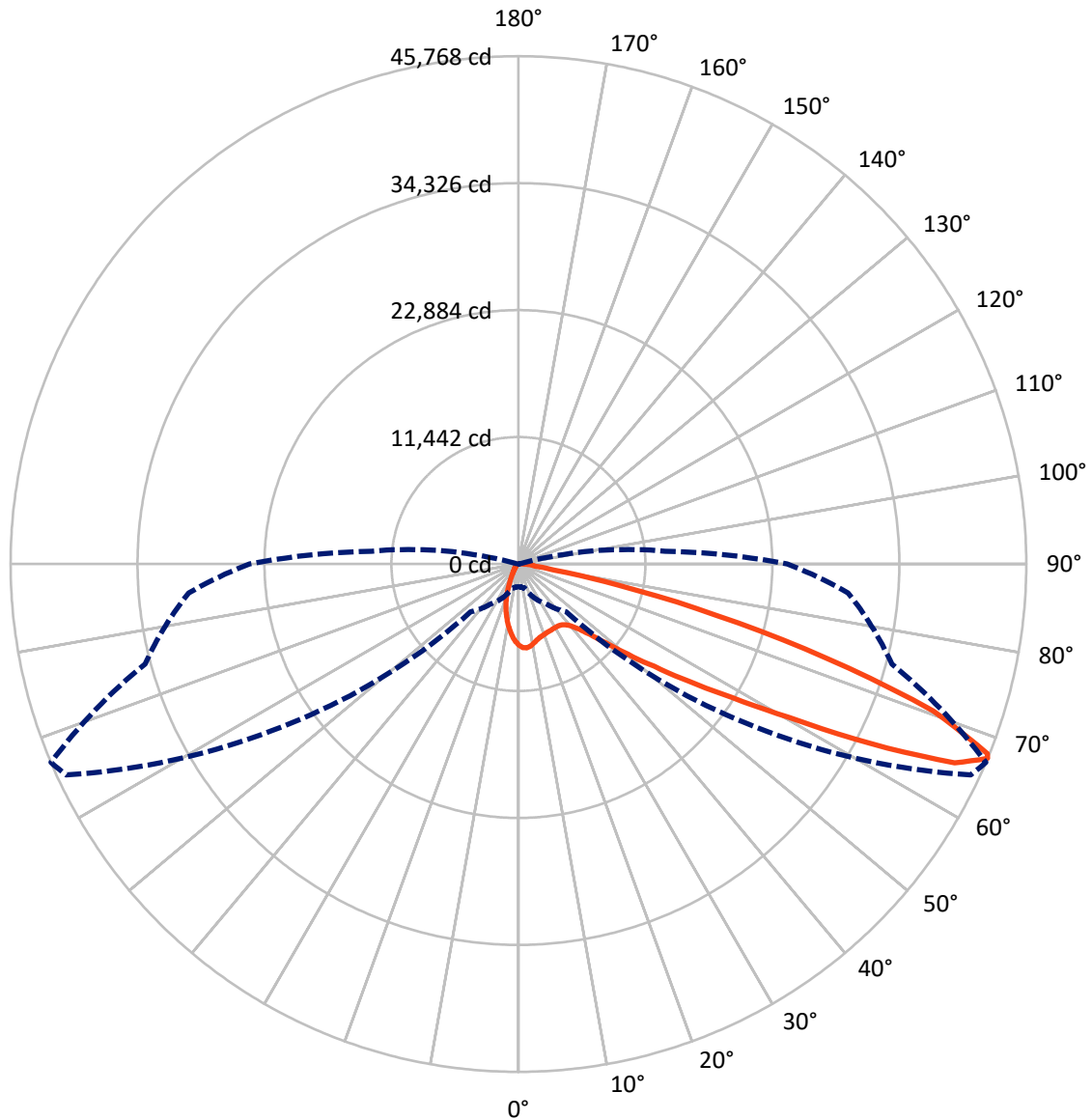


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3450.9	0.0	3450.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	29785.0	0.0	29785.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	33235.9	0.0	33235.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	596.4	1.8
10°-20°	1269.4	3.8
20°-30°	1845.6	5.6
30°-40°	2879.2	8.7
40°-50°	5100.3	15.3
50°-60°	8070.7	24.3
60°-70°	9243.9	27.8
70°-80°	3834.3	11.5
80°-90°	396.1	1.2
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°	33235.9	100.0
0°-180°	33235.9	100.0



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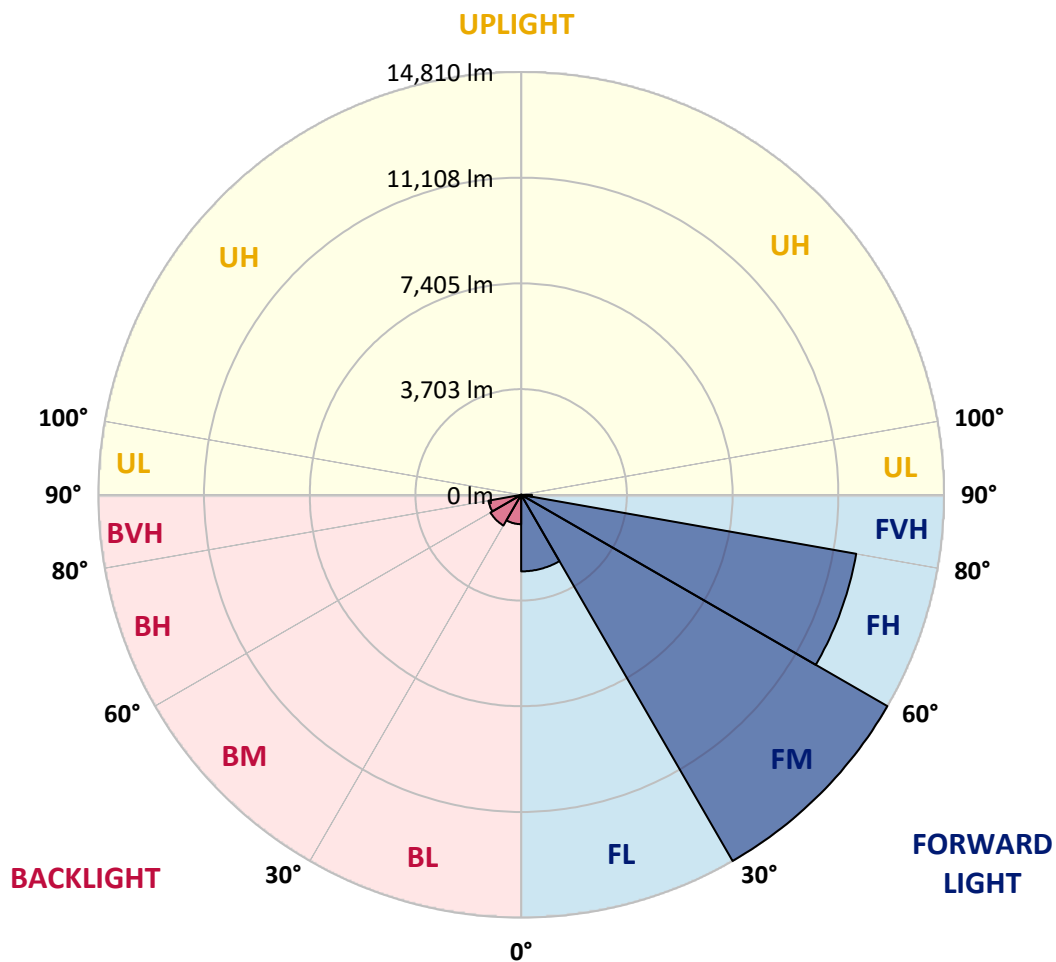
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2681.6	8.1			
FM (30°-60°)	14810.0	44.6			
FH (60°-80°)	11915.2	35.9			G4/12000
FVH (80°-90°)	378.2	1.1			G3/500
BL (0°-30°)	1029.7	3.1	B3/2500		
BM (30°-60°)	1240.2	3.7	B2/2500		
BH (60°-80°)	1163.1	3.5	B3/2500		G3/2500
BVH (80°-90°)	17.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7
2.5°	7577.9	7593.5	7591.4	7603.1	7630.3	7632.2	7605.1	7552.7	7541.0	7473.2	7355.0
5°	6988.5	7033.1	7060.3	7170.8	7294.9	7444.2	7556.5	7597.2	7591.4	7543.0	7364.7
7.5°	6315.9	6360.4	6391.5	6521.3	6686.2	6942.0	7234.8	7475.2	7496.4	7548.7	7356.8
10°	5868.1	5875.9	5918.5	6042.4	6215.1	6476.8	6825.7	7246.4	7310.3	7502.3	7337.4
12.5°	5499.8	5505.5	5561.8	5695.6	5879.6	6143.4	6509.7	6996.3	7095.2	7444.2	7333.7
15°	5238.0	5259.3	5309.7	5449.3	5645.0	5906.9	6282.9	6812.1	6930.5	7422.8	7368.4
17.5°	5150.8	5174.1	5189.6	5290.4	5468.7	5724.5	6110.5	6692.0	6825.7	7434.5	7436.3
20°	5241.9	5259.3	5224.5	5249.6	5360.1	5589.0	5964.9	6589.2	6748.2	7447.9	7523.7
22.5°	5581.2	5589.0	5493.9	5383.5	5364.0	5490.0	5850.7	6507.9	6678.4	7484.9	7626.3
25°	6162.7	6149.2	5994.1	5755.6	5530.8	5472.6	5782.7	6457.3	6643.4	7523.7	7733.0
27.5°	6864.5	6883.9	6670.6	6323.6	5895.1	5589.0	5773.0	6436.0	6628.0	7550.8	7826.0
30°	7717.5	7744.6	7500.4	7064.1	6449.7	5875.9	5862.2	6432.1	6618.4	7533.2	7833.8
32.5°	8587.8	8620.9	8428.9	7979.1	7190.2	6356.5	6063.9	6474.9	6637.7	7473.2	7789.3
35°	9498.9	9545.5	9417.7	9031.7	8194.3	7050.5	6418.6	6604.7	6728.8	7467.4	7744.6
37.5°	10757.2	10799.9	10559.3	10150.4	9409.8	7981.1	6988.5	6848.9	6944.0	7560.5	7756.2
40°	12635.6	12629.8	12009.5	11383.3	10745.5	9163.6	7789.3	7291.0	7339.4	7841.6	7899.6
42.5°	14682.7	14673.0	13756.1	12804.4	12228.4	10619.6	8841.8	8054.7	8021.9	8359.1	8272.0
45°	16260.8	16258.9	15510.6	14438.5	14014.0	12290.6	10202.7	9117.1	9066.8	9200.5	8958.2
47.5°	16933.4	16945.1	16569.0	15814.9	15993.2	14550.9	11918.4	10656.4	10580.7	10526.5	10158.2
50°	16410.0	16433.2	16464.2	16317.0	17445.3	17588.6	14219.5	12825.6	12788.8	12546.4	11970.8
52.5°	14700.3	14818.4	15183.0	15650.1	17949.3	20504.4	17827.1	15520.2	15322.5	15064.7	14430.7
55°	11819.4	11949.3	12641.5	13775.5	17198.9	22419.5	22883.0	18994.1	18664.5	17895.0	16979.9
57.5°	7822.1	8023.8	9028.0	10470.3	15020.1	22727.8	27927.0	23815.3	22667.7	20560.4	19529.2
60°	4309.4	4503.4	5592.8	6899.4	10848.2	21204.1	31319.5	30092.5	28064.7	23540.1	22625.2
62.5°	2654.0	2758.5	3563.0	4778.5	6505.9	16735.8	32021.3	37980.5	35632.9	27376.6	26364.5
65°	2113.1	2157.5	2551.1	3906.2	4664.2	9954.6	29755.2	43994.0	43210.8	32021.3	29712.5
67°	2051.0	2068.4	2254.6	3353.7	4396.7	6102.6	24928.1	44972.9	45767.7	34832.3	29817.3
67.5°	2064.6	2084.0	2260.3	3200.7	4388.8	5608.3	23264.8	44587.2	45591.4	35055.2	29353.8
70°	1991.0	2051.0	2587.9	3198.7	4173.7	4660.3	13932.5	38631.9	39676.8	32572.0	24906.8
72.5°	705.7	709.5	1118.6	2587.9	4538.1	4710.7	6996.3	28320.7	29094.1	24916.5	17956.9
75°	418.7	356.6	372.2	736.7	4336.6	4575.1	4036.2	18096.5	18385.4	14277.7	9093.8
77.5°	288.9	252.1	259.8	325.6	1651.7	4511.1	3206.4	9437.0	9128.8	5007.3	1936.7
80°	164.7	145.3	155.0	284.9	601.0	4208.6	3024.1	3826.7	3262.6	849.1	535.0
82.5°	87.2	73.8	89.2	234.5	418.7	2623.0	3030.1	1849.4	1465.6	286.9	364.4
85°	31.0	25.2	42.7	160.8	279.2	804.5	2809.0	1554.7	1221.2	139.5	277.1
87.5°	5.7	5.7	17.4	65.9	112.5	246.1	1661.3	922.7	618.5	83.4	190.0
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°	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7	7329.7
2.5°	7306.5	7223.1	7110.8	6973.1	6810.2	6666.7	6560.1	6449.7	6426.4	6387.6	6381.7
5°	7258.0	7114.5	6835.5	6515.5	6174.4	5866.1	5616.1	5393.2	5294.3	5208.9	5199.3
7.5°	7186.4	6971.0	6496.2	5980.5	5447.4	4962.7	4551.8	4261.0	3993.4	3865.4	3846.2
10°	7102.9	6794.7	6114.3	5399.0	4662.3	3978.0	3367.2	2855.5	2545.3	2361.1	2337.8
12.5°	7025.4	6622.1	5724.5	4796.1	3817.1	2902.1	2116.9	1628.4	1302.7	1170.9	1155.4
15°	6988.5	6482.6	5360.1	4179.5	2933.1	1847.5	1157.3	895.6	789.0	758.0	756.1
17.5°	6984.7	6364.3	5003.5	3541.7	2055.0	1074.0	754.0	688.2	666.9	659.1	659.1
20°	6982.7	6251.9	4646.8	2880.8	1304.7	715.3	628.0	612.6	597.1	587.4	587.4
22.5°	7004.1	6151.1	4274.6	2206.1	821.9	579.6	552.5	536.9	517.7	503.9	502.2
25°	7025.4	6073.5	3894.6	1570.2	595.1	503.9	476.9	455.6	428.4	411.0	409.1
27.5°	7029.2	5976.7	3487.5	1050.7	498.2	440.1	405.1	372.2	341.1	323.7	321.9
30°	6971.0	5813.8	3035.8	709.5	440.1	381.9	335.3	300.5	271.4	257.9	257.9
32.5°	6856.8	5612.3	2539.5	535.0	391.7	327.6	277.1	244.2	224.8	219.0	217.1
35°	6753.9	5395.0	2029.7	453.6	350.9	277.1	226.8	205.5	193.9	191.9	190.0
37.5°	6693.9	5220.6	1550.8	411.0	312.2	232.7	191.9	176.3	170.6	166.7	168.6
40°	6740.4	5075.2	1145.7	376.1	273.4	193.9	162.9	155.0	149.3	147.3	147.3
42.5°	6944.0	5050.0	851.1	345.0	236.6	160.8	141.6	135.7	131.8	129.8	131.8
45°	7479.0	5205.0	661.1	315.9	199.7	135.7	120.3	118.2	116.3	116.3	116.3
47.5°	8283.5	5524.9	550.5	283.1	166.7	116.3	104.7	102.8	100.8	102.8	102.8
50°	9646.3	6110.5	492.5	250.1	137.6	98.9	89.2	89.2	89.2	89.2	91.1
52.5°	11718.7	7261.9	453.6	217.1	112.5	83.4	75.5	75.5	77.6	77.6	79.5
55°	14027.6	8789.5	418.7	184.2	95.0	69.8	62.1	64.0	65.9	67.8	67.8
57.5°	16532.1	10481.9	389.7	151.3	81.4	56.2	52.3	54.3	56.2	60.0	60.0
60°	19554.3	12313.8	347.0	118.2	67.8	44.6	40.8	44.6	50.5	54.3	56.2
62.5°	22873.3	14085.7	292.7	93.1	56.2	34.9	33.0	40.8	48.5	52.3	54.3
65°	25141.4	14642.1	224.8	75.5	42.7	25.2	27.2	36.8	46.5	52.3	52.3
67°	24222.4	13275.3	184.2	64.0	34.9	19.5	25.2	36.8	46.5	50.5	52.3
67.5°	23584.7	12740.3	176.3	62.1	33.0	19.5	25.2	36.8	46.5	52.3	52.3
70°	19190.0	9570.7	147.3	46.5	27.2	17.4	21.3	34.9	44.6	50.5	50.5
72.5°	13333.5	5901.1	131.8	33.0	23.3	15.5	19.5	33.0	42.7	48.5	50.5
75°	6339.1	2136.3	112.5	25.2	21.3	13.6	17.4	33.0	42.7	48.5	48.5
77.5°	1293.0	496.3	91.1	21.3	17.4	13.6	15.5	31.0	40.8	46.5	46.5
80°	424.5	191.9	67.8	19.5	17.4	13.6	15.5	29.0	40.8	44.6	46.5
82.5°	306.3	96.9	44.6	19.5	17.4	13.6	13.6	29.0	38.7	44.6	44.6
85°	234.5	67.8	29.0	19.5	17.4	13.6	13.6	27.2	36.8	42.7	42.7
87.5°	155.0	27.2	23.3	19.5	17.4	13.6	13.6	27.2	34.9	40.8	42.7
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)