

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: P191858

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191858
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-10-LED-E1-SL2-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 1050mA 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: 48800 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 558
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

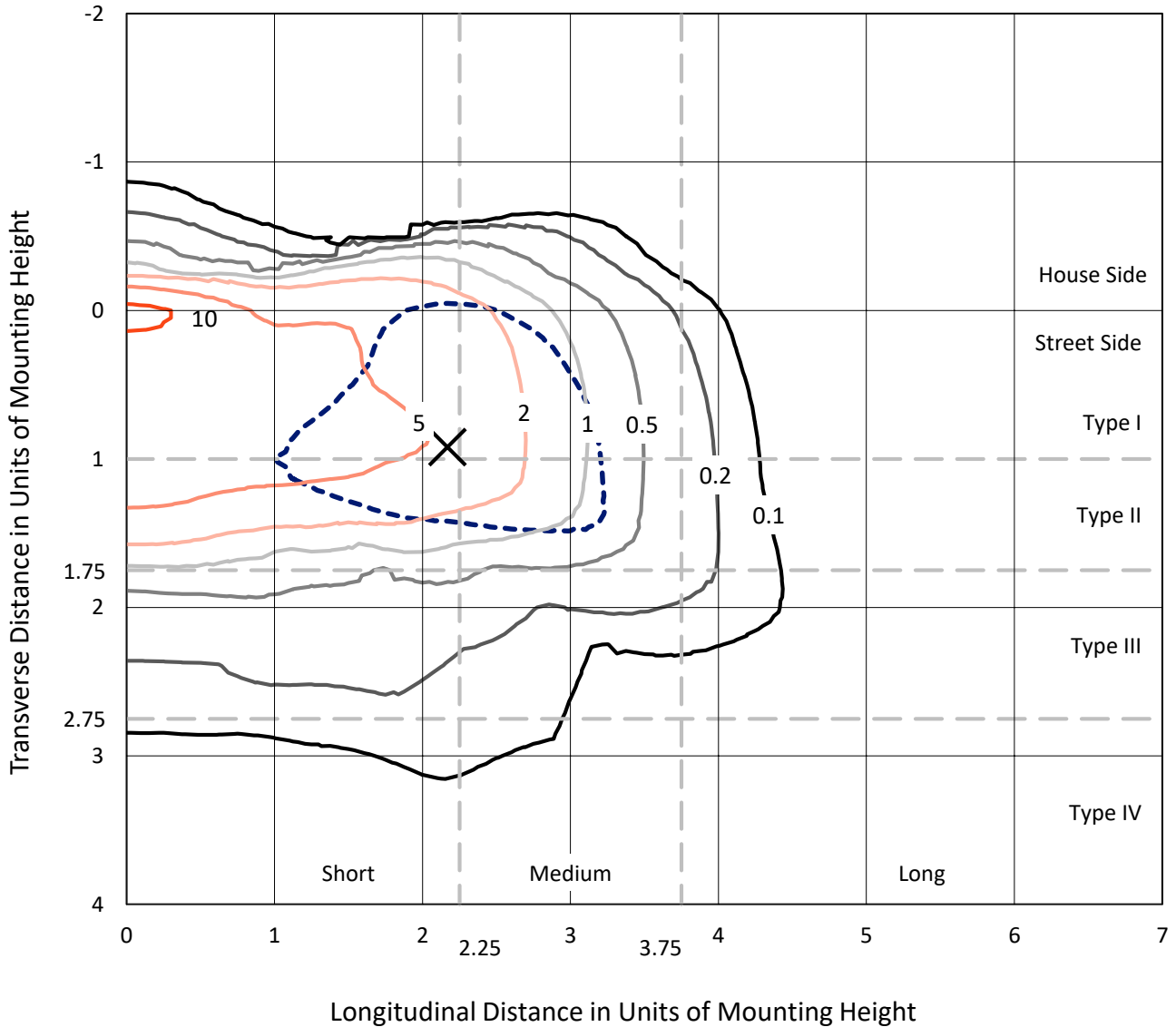


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Iso-Footcandle Lines of Horizontal Illumination

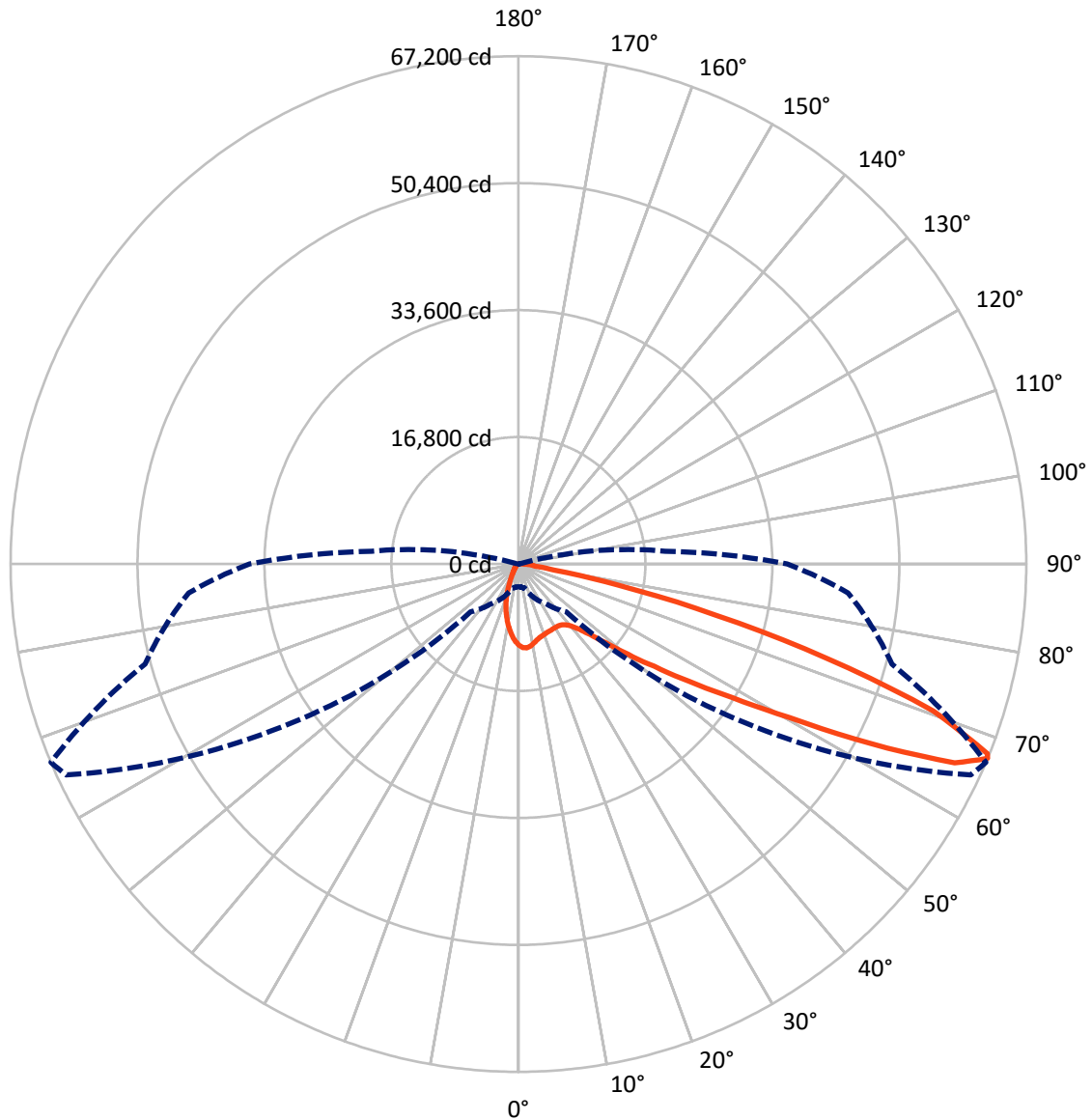
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 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	5066.9	0.0	5066.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	43733.1	0.0	43733.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	48800.0	0.0	48800.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	875.7	1.8
10°-20°	1863.8	3.8
20°-30°	2709.9	5.6
30°-40°	4227.5	8.7
40°-50°	7488.8	15.3
50°-60°	11850.2	24.3
60°-70°	13572.8	27.8
70°-80°	5629.9	11.5
80°-90°	581.5	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°	48800.0	100.0
0°-180°	48800.0	100.0

Coefficient of Utilization



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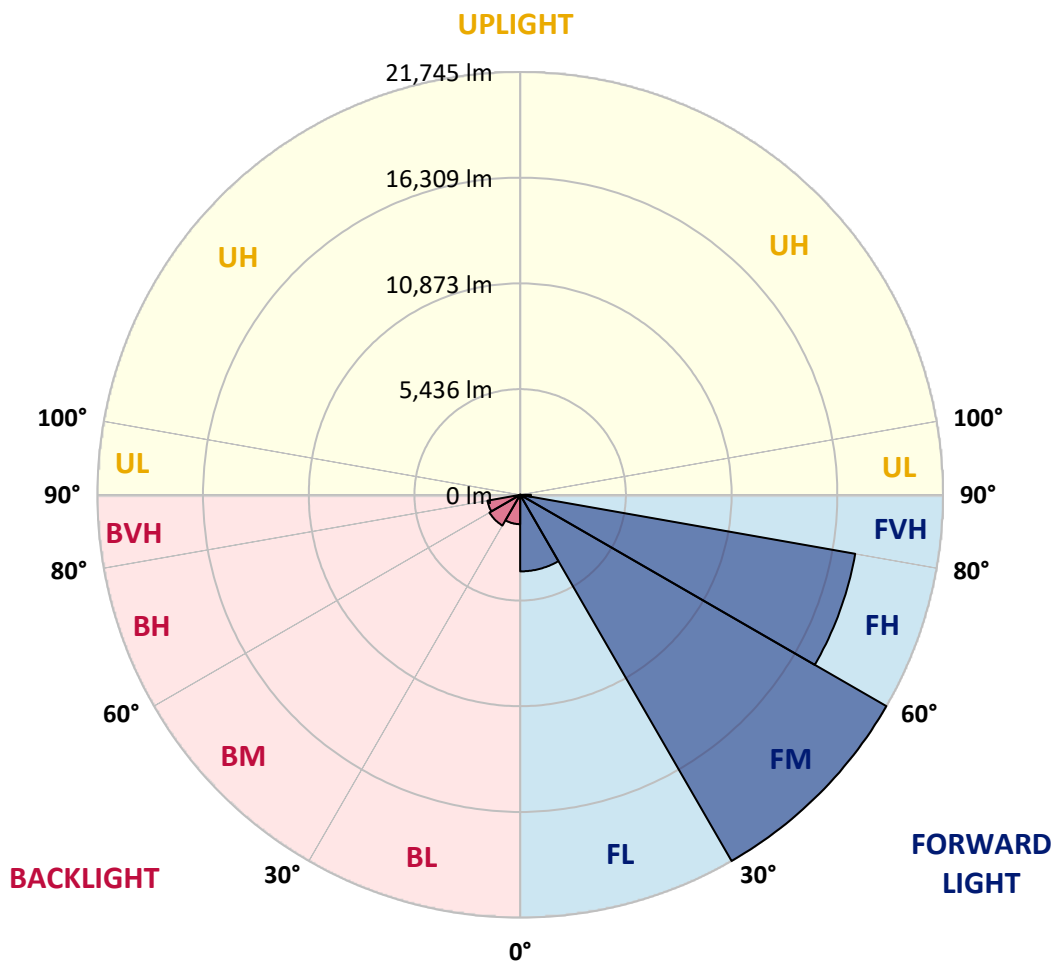
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3937.4	8.1			
FM (30°-60°)	21745.4	44.6			
FH (60°-80°)	17494.9	35.9			G5
FVH (80°-90°)	555.4	1.1			G4/750
BL (0°-30°)	1512.0	3.1	B3/2500		
BM (30°-60°)	1821.0	3.7	B2/2500		
BH (60°-80°)	1707.7	3.5	B3/2500		G3/2500
BVH (80°-90°)	26.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2
2.5°	11126.5	11149.3	11146.5	11163.5	11203.4	11206.2	11166.4	11089.5	11072.5	10972.8	10799.2
5°	10261.2	10326.7	10366.6	10528.8	10711.0	10930.1	11095.2	11155.0	11146.5	11075.3	10813.4
7.5°	9273.5	9339.0	9384.5	9575.3	9817.2	10192.9	10622.7	10975.7	11007.0	11083.8	10802.1
10°	8616.0	8627.4	8690.0	8872.2	9125.5	9509.8	10022.1	10639.8	10733.7	11015.5	10773.6
12.5°	8075.2	8083.7	8166.3	8362.7	8633.1	9020.2	9558.2	10272.6	10417.8	10930.1	10767.9
15°	7690.9	7722.3	7796.3	8001.2	8288.7	8673.0	9225.2	10002.2	10175.8	10898.8	10819.1
17.5°	7562.9	7597.0	7619.8	7767.8	8029.7	8405.4	8971.8	9825.7	10022.1	10915.9	10918.8
20°	7696.6	7722.3	7671.0	7708.0	7870.3	8206.1	8758.3	9674.9	9908.3	10935.8	11046.8
22.5°	8194.8	8206.1	8066.7	7904.4	7876.0	8061.0	8590.4	9555.3	9805.8	10989.9	11197.7
25°	9048.7	9028.8	8801.0	8450.9	8120.8	8035.4	8490.8	9481.3	9754.6	11046.8	11354.3
27.5°	10079.1	10107.5	9794.4	9284.9	8655.9	8206.1	8476.6	9450.0	9731.8	11086.7	11490.9
30°	11331.5	11371.3	11012.7	10372.2	9469.9	8627.4	8607.5	9444.3	9717.6	11061.1	11502.3
32.5°	12609.5	12657.9	12376.1	11715.7	10557.3	9333.3	8903.5	9506.9	9746.0	10972.8	11436.8
35°	13947.3	14015.6	13827.8	13261.3	12031.7	10352.3	9424.4	9697.7	9879.8	10964.3	11371.3
37.5°	15794.6	15857.2	15504.3	14903.7	13816.4	11718.6	10261.2	10056.3	10195.8	11100.9	11388.4
40°	18552.8	18544.2	17633.4	16714.0	15777.5	13454.9	11436.8	10705.3	10776.4	11513.6	11599.0
42.5°	21558.6	21544.3	20198.0	18800.4	17955.0	15592.5	12982.4	11826.8	11778.4	12273.6	12145.5
45°	23875.5	23872.7	22774.0	21199.9	20576.6	18046.1	14980.6	13386.6	13312.6	13509.0	13153.2
47.5°	24863.2	24880.3	24328.1	23220.9	23482.7	21365.0	17499.6	15646.6	15535.6	15455.9	14915.1
50°	24094.7	24128.9	24174.4	23958.1	25614.7	25825.3	20878.3	18831.7	18777.6	18421.8	17576.5
52.5°	21584.2	21757.8	22292.9	22978.9	26354.7	30106.3	26175.4	22788.2	22497.9	22119.3	21188.5
55°	17354.4	17545.2	18561.3	20226.5	25253.2	32918.5	33598.8	27888.9	27405.0	26275.0	24931.5
57.5°	11485.2	11781.2	13255.6	15373.4	22053.8	33371.1	41005.1	34967.9	33282.8	30188.8	28674.5
60°	6327.5	6612.2	8211.8	10130.3	15928.4	31133.8	45986.3	44184.5	41207.2	34563.7	33220.2
62.5°	3896.7	4050.4	5231.7	7016.4	9552.5	24572.9	47016.7	55766.5	52319.5	40196.7	38710.9
65°	3102.6	3168.0	3745.8	5735.5	6848.4	14616.2	43689.2	64596.0	63446.0	47016.7	43626.6
67°	3011.5	3037.1	3310.4	4924.3	6455.6	8960.4	36601.7	66033.4	67200.4	51143.9	43780.3
67.5°	3031.4	3059.9	3318.9	4699.4	6444.2	8234.6	34159.5	65467.0	66941.4	51471.3	43100.0
70°	2923.2	3011.5	3799.9	4696.5	6128.3	6842.7	20457.0	56722.9	58257.1	47825.1	36570.4
72.5°	1036.1	1041.8	1642.4	3799.9	6663.4	6916.7	10272.6	41582.9	42718.6	36584.7	26366.1
75°	614.8	523.7	546.5	1081.6	6367.4	6717.5	5926.2	26571.1	26995.2	20963.7	13352.4
77.5°	424.1	370.0	381.4	478.2	2425.1	6623.6	4707.9	13856.2	13403.7	7352.2	2843.5
80°	241.9	213.5	227.7	418.4	882.4	6179.5	4440.4	5618.8	4790.5	1246.7	785.6
82.5°	128.1	108.2	130.9	344.4	614.8	3851.2	4448.9	2715.5	2151.9	421.3	535.1
85°	45.5	37.0	62.6	236.3	409.9	1181.3	4124.4	2282.8	1793.2	204.9	407.0
87.5°	8.5	8.5	25.6	96.8	165.1	361.5	2439.4	1354.9	908.0	122.4	278.9
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°	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2	10762.2
2.5°	10728.0	10605.7	10440.6	10238.5	9999.4	9788.7	9632.2	9469.9	9435.8	9378.9	9370.3
5°	10656.9	10446.3	10036.4	9566.7	9065.8	8613.2	8246.0	7918.7	7773.5	7648.3	7634.0
7.5°	10551.6	10235.6	9538.3	8781.1	7998.4	7286.8	6683.3	6256.4	5863.6	5675.7	5647.2
10°	10429.2	9976.6	8977.5	7927.2	6845.6	5840.8	4944.2	4192.7	3737.3	3466.9	3432.7
12.5°	10315.3	9723.3	8405.4	7042.0	5604.5	4261.0	3108.3	2391.0	1912.8	1719.2	1696.4
15°	10261.2	9518.3	7870.3	6136.8	4306.6	2712.6	1699.3	1315.0	1158.5	1112.9	1110.1
17.5°	10255.5	9344.7	7346.5	5200.4	3017.2	1576.9	1107.2	1010.5	979.2	967.8	967.8
20°	10252.7	9179.6	6822.8	4229.7	1915.6	1050.3	922.2	899.5	876.7	862.5	862.5
22.5°	10284.0	9031.6	6276.3	3239.2	1206.9	851.1	811.2	788.5	760.0	740.1	737.2
25°	10315.3	8917.7	5718.4	2305.6	873.8	740.1	700.2	668.9	629.1	603.4	600.6
27.5°	10321.0	8775.4	5120.7	1542.7	731.5	646.1	594.9	546.5	501.0	475.3	472.5
30°	10235.6	8536.3	4457.4	1041.8	646.1	560.7	492.4	441.2	398.5	378.6	378.6
32.5°	10067.7	8240.3	3728.8	785.6	575.0	481.0	407.0	358.6	330.2	321.6	318.8
35°	9916.8	7921.5	2980.2	666.1	515.2	407.0	333.0	301.7	284.6	281.8	278.9
37.5°	9828.6	7665.3	2277.1	603.4	458.3	341.6	281.8	259.0	250.5	244.8	247.6
40°	9896.9	7451.9	1682.2	552.2	401.3	284.6	239.1	227.7	219.2	216.3	216.3
42.5°	10195.8	7414.8	1249.6	506.7	347.3	236.3	207.8	199.2	193.6	190.7	193.6
45°	10981.4	7642.6	970.6	464.0	293.2	199.2	176.5	173.6	170.8	170.8	170.8
47.5°	12162.6	8112.2	808.4	415.6	244.8	170.8	153.7	150.9	148.0	150.9	150.9
50°	14163.6	8971.8	723.0	367.2	202.1	145.2	130.9	130.9	130.9	130.9	133.8
52.5°	17206.4	10662.6	666.1	318.8	165.1	122.4	111.0	111.0	113.9	113.9	116.7
55°	20596.5	12905.5	614.8	270.4	139.5	102.5	91.1	93.9	96.8	99.6	99.6
57.5°	24274.0	15390.4	572.1	222.0	119.5	82.5	76.9	79.7	82.5	88.2	88.2
60°	28711.5	18080.3	509.5	173.6	99.6	65.5	59.8	65.5	74.0	79.7	82.5
62.5°	33584.6	20681.9	429.8	136.6	82.5	51.2	48.4	59.8	71.2	76.9	79.7
65°	36914.8	21498.8	330.2	111.0	62.6	37.0	39.8	54.1	68.3	76.9	76.9
67°	35565.6	19492.1	270.4	93.9	51.2	28.5	37.0	54.1	68.3	74.0	76.9
67.5°	34629.2	18706.5	259.0	91.1	48.4	28.5	37.0	54.1	68.3	76.9	76.9
70°	28176.4	14052.6	216.3	68.3	39.8	25.6	31.3	51.2	65.5	74.0	74.0
72.5°	19577.5	8664.4	193.6	48.4	34.2	22.8	28.5	48.4	62.6	71.2	74.0
75°	9307.7	3136.7	165.1	37.0	31.3	19.9	25.6	48.4	62.6	71.2	71.2
77.5°	1898.5	728.7	133.8	31.3	25.6	19.9	22.8	45.5	59.8	68.3	68.3
80°	623.4	281.8	99.6	28.5	25.6	19.9	22.8	42.7	59.8	65.5	68.3
82.5°	449.7	142.3	65.5	28.5	25.6	19.9	19.9	42.7	56.9	65.5	65.5
85°	344.4	99.6	42.7	28.5	25.6	19.9	19.9	39.8	54.1	62.6	62.6
87.5°	227.7	39.8	34.2	28.5	25.6	19.9	19.9	39.8	51.2	59.8	62.6
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)