

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: P191058

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191058
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 49920 lumens
Efficiency: N/A
Efficacy: 89.5 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

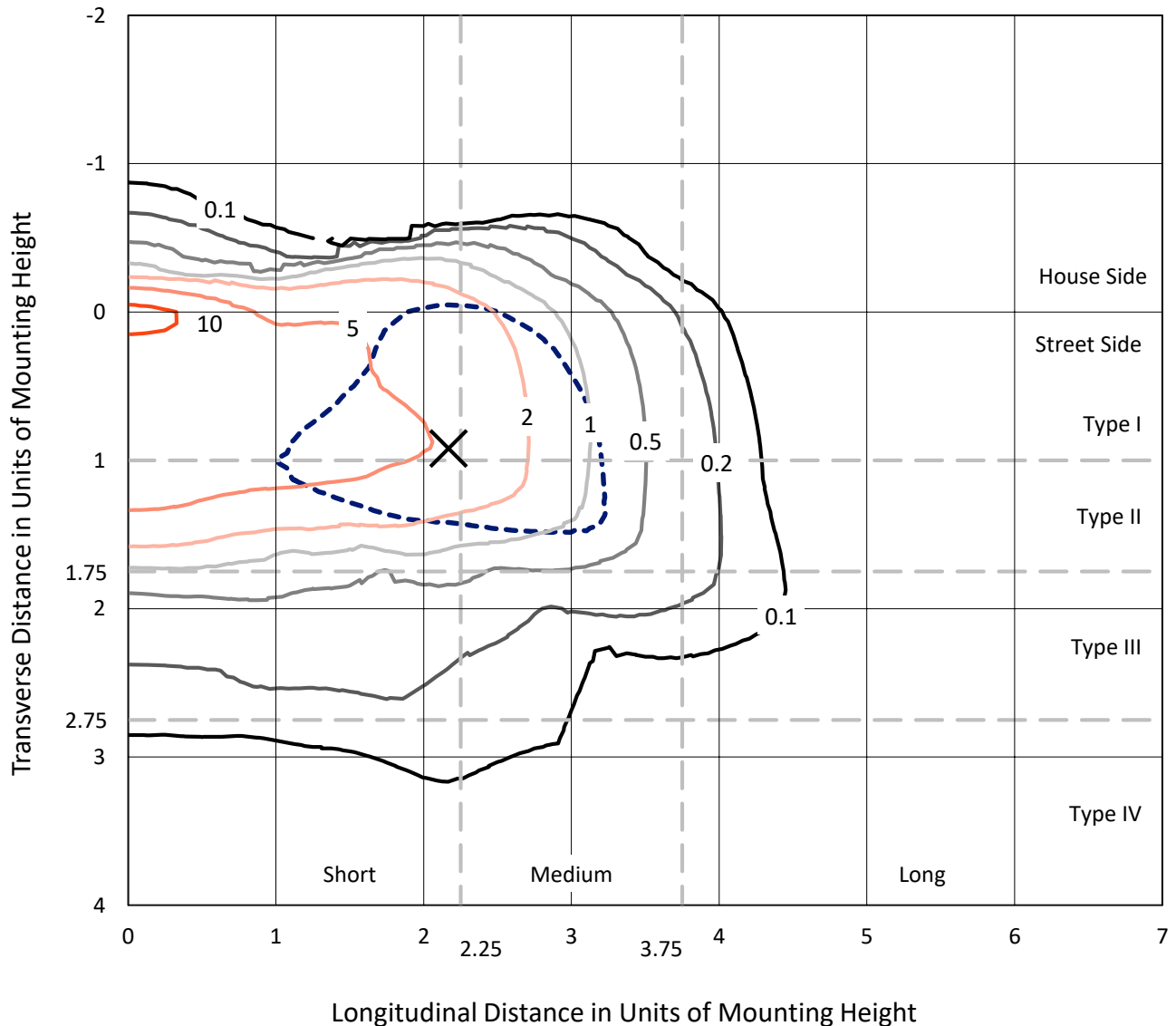
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

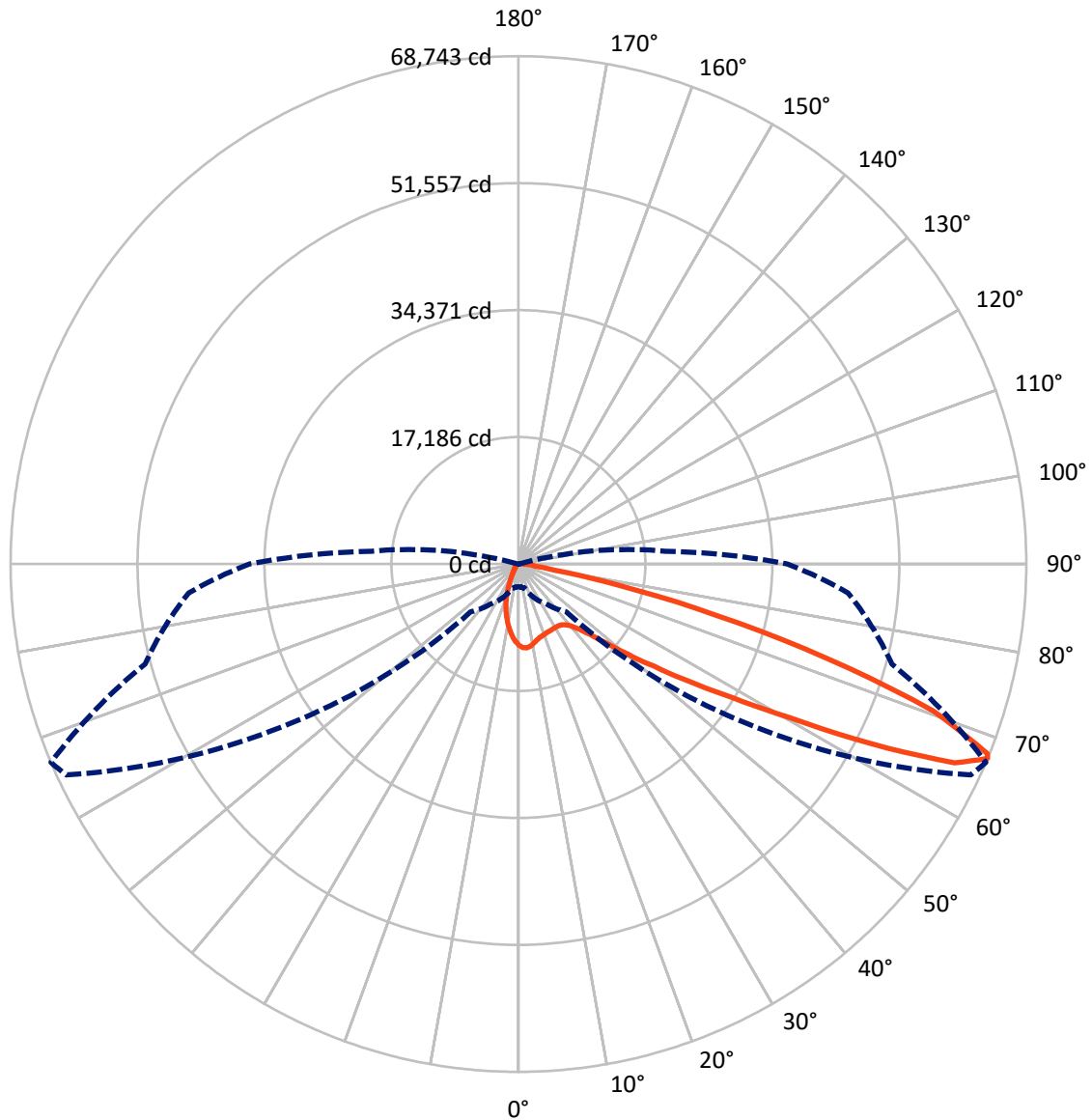
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.2 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	5183.2	0.0	5183.2
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	44736.8	0.0	44736.8
	% Fixture	89.6	0.0	89.6
Total	Lumens	49920.0	0.0	49920.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.8	1.8
10°-20°	1906.6	3.8
20°-30°	2772.0	5.6
30°-40°	4324.5	8.7
40°-50°	7660.6	15.3
50°-60°	12122.2	24.3
60°-70°	13884.3	27.8
70°-80°	5759.1	11.5
80°-90°	594.9	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°	49920.0	100.0
0°-180°	49920.0	100.0



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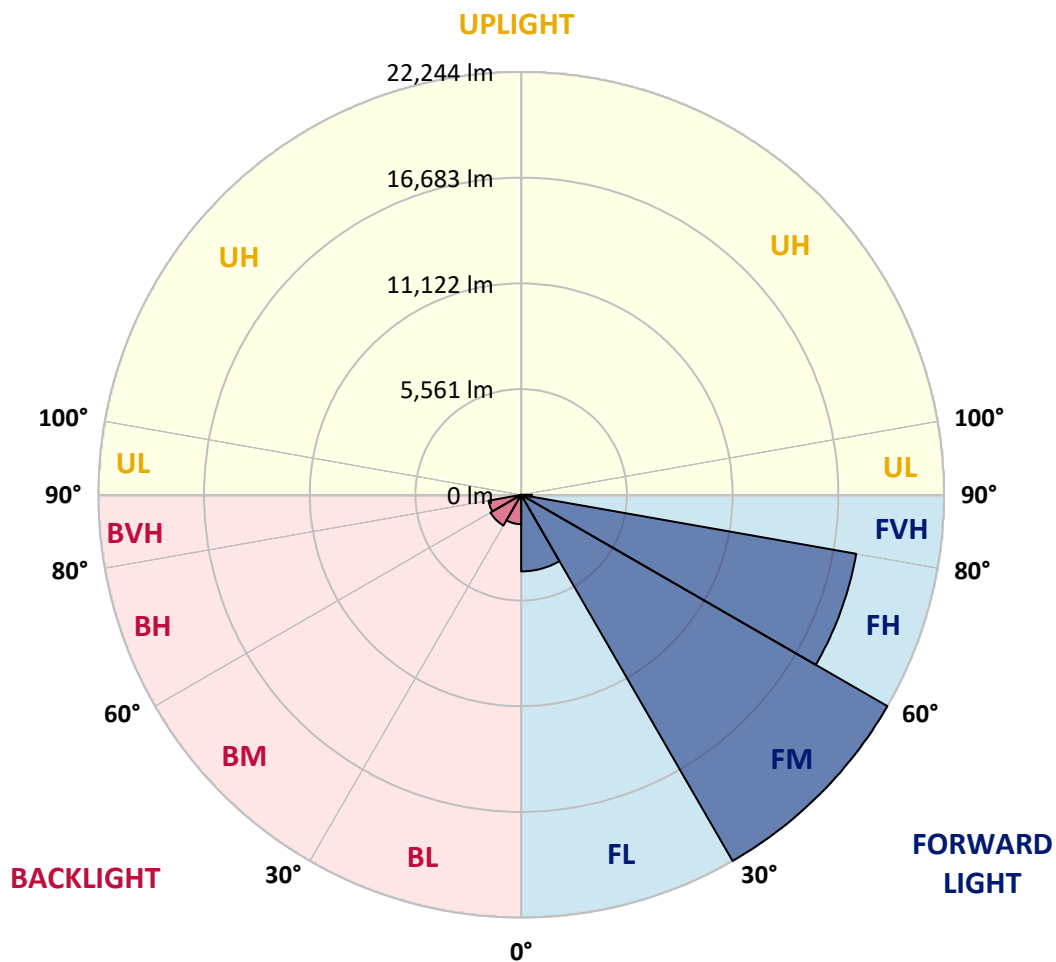
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4027.8	8.1			
FM	(30°-60°)	22244.5	44.6			
FH	(60°-80°)	17896.4	35.9			G5
FVH	(80°-90°)	568.1	1.1			G4/750
BL	(0°-30°)	1546.7	3.1	B3/2500		
BM	(30°-60°)	1862.8	3.7	B2/2500		
BH	(60°-80°)	1746.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	26.8	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2
2.5°	11381.9	11405.2	11402.3	11419.7	11460.5	11463.4	11422.7	11344.0	11326.6	11224.6	11047.1
5°	10496.7	10563.7	10604.5	10770.4	10956.8	11181.0	11349.8	11411.0	11402.3	11329.5	11061.6
7.5°	9486.3	9553.3	9599.9	9795.1	10042.5	10426.8	10866.5	11227.6	11259.6	11338.2	11050.0
10°	8813.7	8825.4	8889.4	9075.8	9334.9	9728.1	10252.1	10884.0	10980.0	11268.3	11020.9
12.5°	8260.5	8269.2	8353.7	8554.6	8831.2	9227.2	9777.6	10508.4	10656.9	11181.0	11015.0
15°	7867.4	7899.5	7975.2	8184.8	8478.9	8872.1	9436.9	10231.8	10409.3	11148.9	11067.4
17.5°	7736.5	7771.4	7794.7	7946.1	8214.0	8598.3	9177.7	10051.2	10252.1	11166.4	11169.4
20°	7873.2	7899.5	7847.1	7884.9	8050.9	8394.4	8959.3	9896.9	10135.7	11186.8	11300.3
22.5°	8382.9	8394.4	8251.8	8085.8	8056.8	8246.0	8787.6	9774.6	10030.9	11242.1	11454.7
25°	9256.4	9236.0	9003.0	8644.9	8307.2	8219.8	8685.7	9698.9	9978.5	11300.3	11614.9
27.5°	10310.4	10339.5	10019.2	9498.0	8854.6	8394.4	8671.1	9666.9	9955.2	11341.1	11754.6
30°	11591.6	11632.3	11265.5	10610.3	9687.2	8825.4	8805.0	9661.1	9940.6	11315.0	11766.3
32.5°	12898.9	12948.4	12660.1	11984.6	10799.6	9547.5	9107.8	9725.1	9969.7	11224.6	11699.3
35°	14267.4	14337.3	14145.2	13565.7	12307.8	10589.9	9640.7	9920.3	10106.5	11215.9	11632.3
37.5°	16157.1	16221.1	15860.1	15245.8	14133.5	11987.6	10496.7	10287.1	10429.8	11355.7	11649.8
40°	18978.6	18969.8	18038.1	17097.6	16139.6	13763.7	11699.3	10951.0	11023.7	11777.8	11865.2
42.5°	22053.4	22038.8	20661.6	19231.9	18367.1	15950.4	13280.4	12098.2	12048.7	12555.3	12424.2
45°	24423.5	24420.6	23296.7	21686.5	21048.8	18460.3	15324.4	13693.8	13618.1	13819.0	13455.1
47.5°	25433.8	25451.3	24886.4	23753.8	24021.6	21855.3	17901.2	16005.7	15892.2	15810.6	15257.4
50°	24647.7	24682.7	24729.2	24508.0	26202.6	26418.0	21357.5	19263.9	19208.6	18844.6	17979.9
52.5°	22079.6	22257.2	22804.5	23506.3	26959.6	30797.3	26776.1	23311.2	23014.2	22627.0	21674.8
55°	17752.7	17947.9	18987.3	20690.7	25832.8	33674.0	34369.9	28529.0	28034.0	26878.0	25503.7
57.5°	11748.8	12051.6	13559.8	15726.2	22560.0	34137.0	41946.2	35770.4	34046.7	30881.7	29332.6
60°	6472.7	6764.0	8400.3	10362.8	16294.0	31848.3	47041.7	45198.6	42152.9	35357.0	33982.6
62.5°	3986.1	4143.4	5351.8	7177.4	9771.7	25136.9	48095.8	57046.4	53520.3	41119.2	39599.3
65°	3173.8	3240.7	3831.8	5867.1	7005.6	14951.7	44691.9	66078.5	64902.1	48095.8	44627.9
67°	3080.6	3106.8	3386.4	5037.3	6603.8	9166.0	37441.7	67548.9	68742.7	52317.7	44785.1
67.5°	3101.0	3130.1	3395.1	4807.3	6592.1	8423.6	34943.5	66969.5	68477.8	52652.6	44089.2
70°	2990.3	3080.6	3887.1	4804.3	6268.9	6999.7	20926.5	58024.7	59594.1	48922.7	37409.7
72.5°	1059.9	1065.7	1680.1	3887.1	6816.3	7075.4	10508.4	42537.3	43699.0	37424.3	26971.2
75°	628.9	535.7	559.0	1106.4	6513.5	6871.7	6062.2	27180.9	27614.8	21444.8	13658.8
77.5°	433.8	378.5	390.2	489.2	2480.8	6775.6	4816.0	14174.2	13711.3	7520.9	2908.8
80°	247.5	218.4	232.9	428.0	902.7	6321.3	4542.3	5747.8	4900.4	1275.3	803.6
82.5°	131.0	110.7	133.9	352.3	628.9	3939.6	4551.0	2777.8	2201.3	431.0	547.4
85°	46.5	37.8	64.0	241.7	419.3	1208.4	4219.1	2335.2	1834.4	209.6	416.3
87.5°	8.7	8.7	26.2	99.0	168.9	369.8	2495.4	1386.0	928.8	125.2	285.3
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°	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2	11009.2
2.5°	10974.2	10849.1	10680.2	10473.5	10228.9	10013.4	9853.3	9687.2	9652.4	9594.2	9585.4
5°	10901.5	10686.1	10266.7	9786.3	9273.9	8810.9	8435.3	8100.4	7951.9	7823.8	7809.2
7.5°	10793.8	10470.5	9757.2	8982.6	8182.0	7454.0	6836.7	6400.0	5998.2	5806.0	5776.8
10°	10668.6	10205.6	9183.5	8109.1	7002.7	5974.9	5057.7	4288.9	3823.1	3546.5	3511.5
12.5°	10552.0	9946.5	8598.3	7203.6	5733.1	4358.8	3179.6	2445.9	1956.7	1758.7	1735.3
15°	10496.7	9736.8	8050.9	6277.6	4405.4	2774.9	1738.3	1345.2	1185.1	1138.4	1135.6
17.5°	10490.9	9559.2	7515.1	5319.8	3086.4	1613.1	1132.6	1033.7	1001.7	990.0	990.0
20°	10488.0	9390.3	6979.4	4326.8	1959.6	1074.4	943.4	920.1	896.8	882.3	882.3
22.5°	10520.0	9238.9	6420.3	3313.5	1234.6	870.6	829.8	806.6	777.4	757.1	754.1
25°	10552.0	9122.4	5849.6	2358.5	893.9	757.1	716.3	684.3	643.5	617.2	614.4
27.5°	10557.9	8976.8	5238.2	1578.1	748.3	660.9	608.6	559.0	512.5	486.2	483.3
30°	10470.5	8732.2	4559.7	1065.7	660.9	573.6	503.7	451.3	407.6	387.3	387.3
32.5°	10298.8	8429.4	3814.4	803.6	588.2	492.0	416.3	366.8	337.8	329.0	326.1
35°	10144.4	8103.3	3048.6	681.4	527.0	416.3	340.6	308.6	291.1	288.3	285.3
37.5°	10054.2	7841.2	2329.4	617.2	468.8	349.4	288.3	264.9	256.2	250.4	253.3
40°	10124.0	7622.9	1720.8	564.9	410.5	291.1	244.6	232.9	224.2	221.3	221.3
42.5°	10429.8	7585.0	1278.3	518.3	355.3	241.7	212.6	203.8	198.0	195.1	198.0
45°	11233.4	7818.0	992.9	474.6	299.9	203.8	180.6	177.6	174.7	174.7	174.7
47.5°	12441.7	8298.4	827.0	425.1	250.4	174.7	157.2	154.4	151.4	154.4	154.4
50°	14488.7	9177.7	739.6	375.6	206.7	148.5	133.9	133.9	133.9	133.9	136.9
52.5°	17601.3	10907.3	681.4	326.1	168.9	125.2	113.5	113.5	116.5	116.5	119.4
55°	21069.2	13201.7	628.9	276.6	142.7	104.9	93.2	96.1	99.0	101.9	101.9
57.5°	24831.1	15743.6	585.2	227.1	122.2	84.4	78.7	81.5	84.4	90.2	90.2
60°	29370.5	18495.3	521.2	177.6	101.9	67.0	61.2	67.0	75.7	81.5	84.4
62.5°	34355.4	21156.6	439.7	139.7	84.4	52.4	49.5	61.2	72.8	78.7	81.5
65°	37762.0	21992.2	337.8	113.5	64.0	37.8	40.7	55.3	69.9	78.7	78.7
67°	36381.9	19939.5	276.6	96.1	52.4	29.2	37.8	55.3	69.9	75.7	78.7
67.5°	35424.0	19135.8	264.9	93.2	49.5	29.2	37.8	55.3	69.9	78.7	78.7
70°	28823.1	14375.1	221.3	69.9	40.7	26.2	32.0	52.4	67.0	75.7	75.7
72.5°	20026.8	8863.3	198.0	49.5	35.0	23.3	29.2	49.5	64.0	72.8	75.7
75°	9521.3	3208.7	168.9	37.8	32.0	20.4	26.2	49.5	64.0	72.8	72.8
77.5°	1942.1	745.4	136.9	32.0	26.2	20.4	23.3	46.5	61.2	69.9	69.9
80°	637.7	288.3	101.9	29.2	26.2	20.4	23.3	43.7	61.2	67.0	69.9
82.5°	460.0	145.6	67.0	29.2	26.2	20.4	20.4	43.7	58.2	67.0	67.0
85°	352.3	101.9	43.7	29.2	26.2	20.4	20.4	40.7	55.3	64.0	64.0
87.5°	232.9	40.7	35.0	29.2	26.2	20.4	20.4	40.7	52.4	61.2	64.0
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)