

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: P191057

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191057
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-09-LED-E1-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 45088.6 lumens
Efficiency: N/A
Efficacy: 90.0 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): 501
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

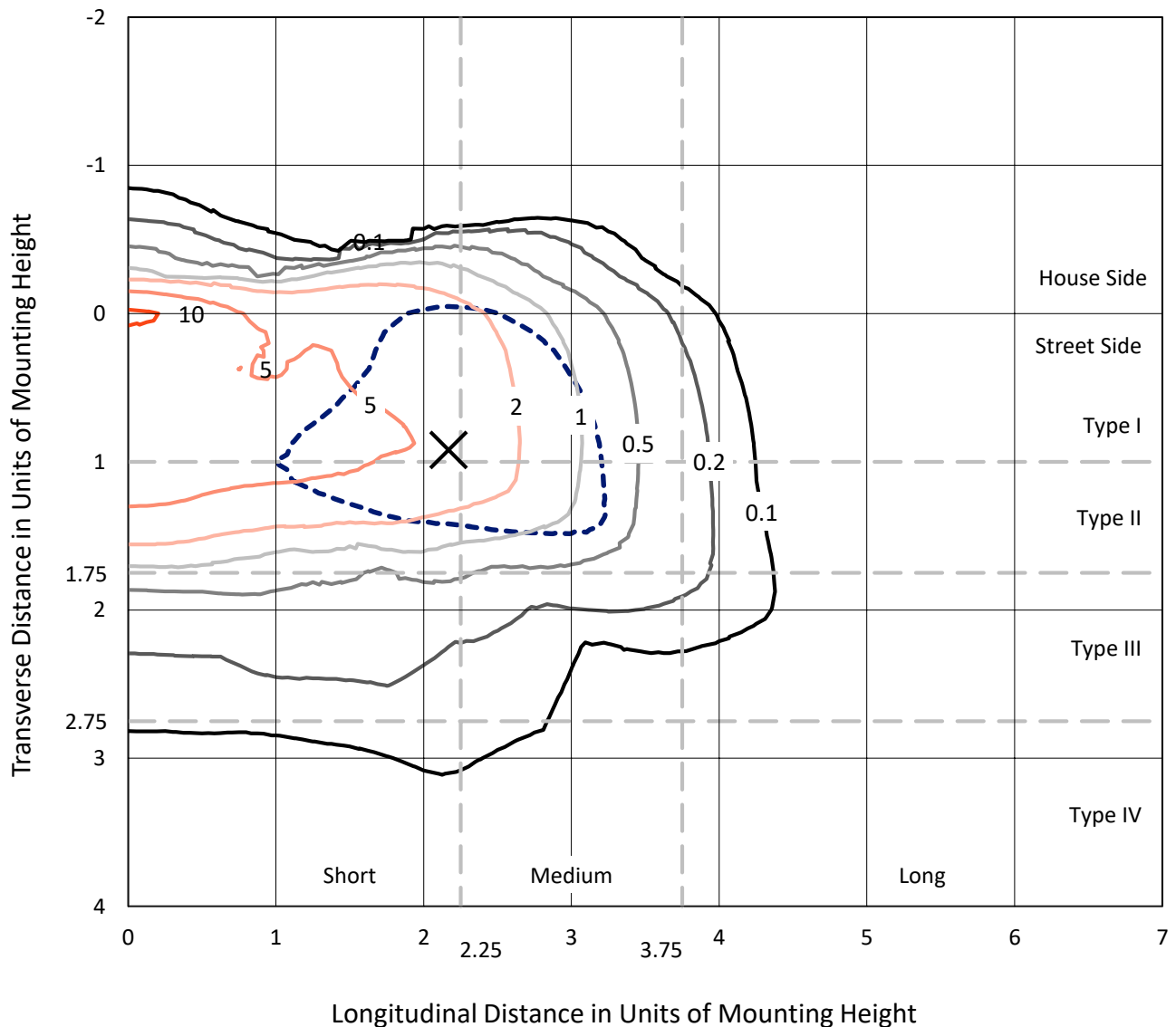


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Iso-Footcandle Lines of Horizontal Illumination

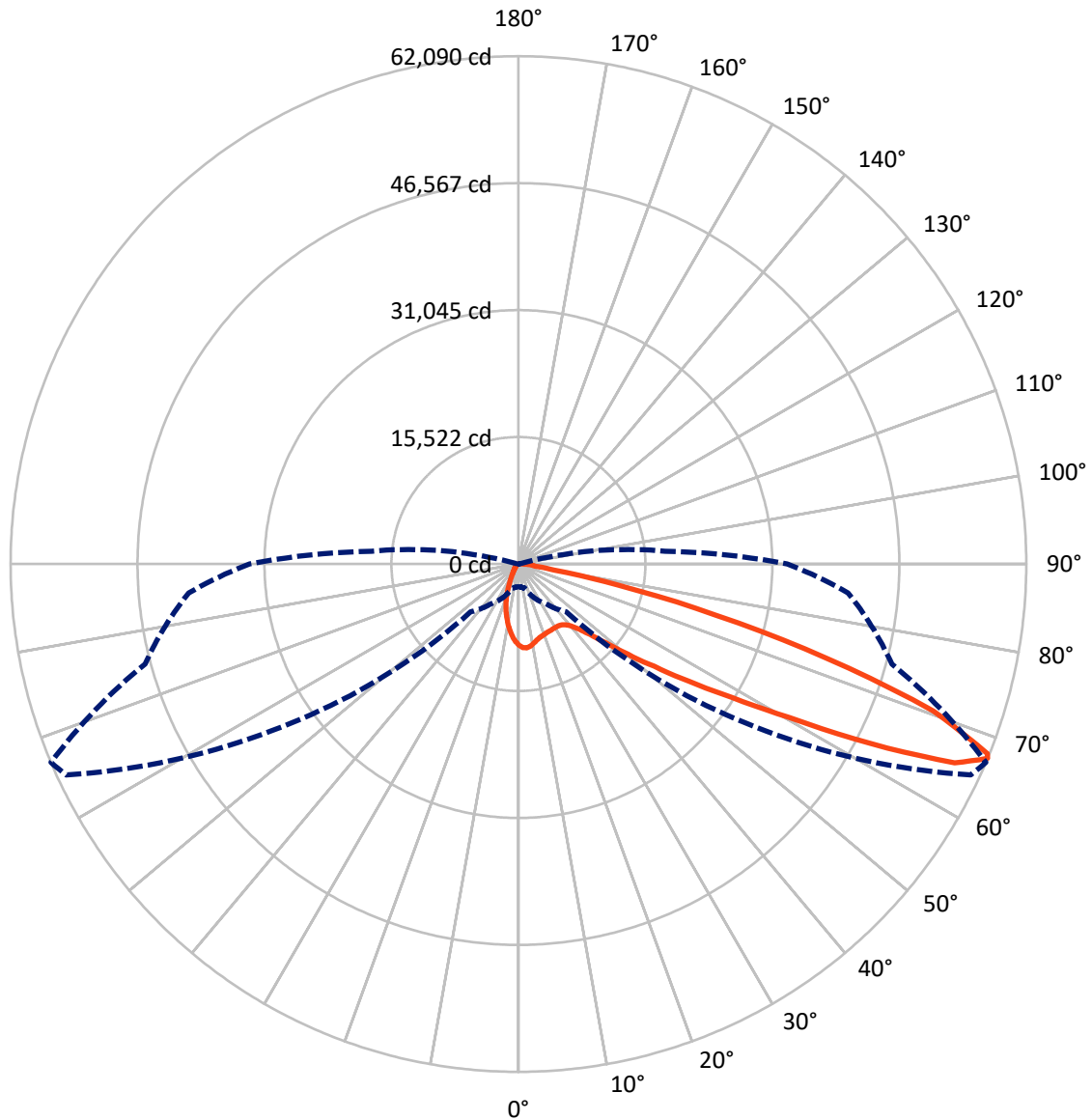
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 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	4681.5	0.0	4681.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	40407.0	0.0	40407.0
	% Fixture	89.6	0.0	89.6
Total	Lumens	45088.6	0.0	45088.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	809.1	1.8
10°-20°	1722.1	3.8
20°-30°	2503.8	5.6
30°-40°	3905.9	8.7
40°-50°	6919.2	15.3
50°-60°	10949.0	24.3
60°-70°	12540.5	27.8
70°-80°	5201.7	11.5
80°-90°	537.3	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°	45088.6	100.0
0°-180°	45088.6	100.0

Coefficient of Utilization



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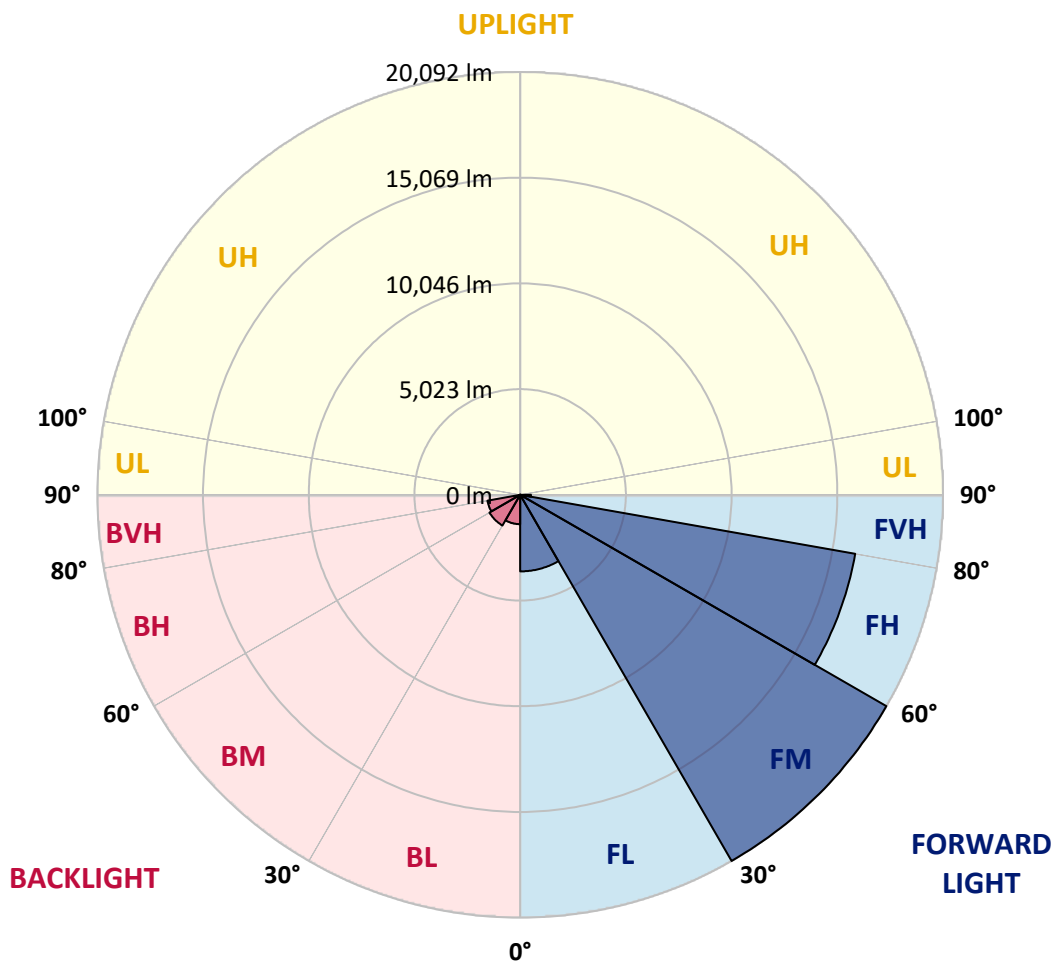
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3638.0	8.1			
FM (30°-60°)	20091.6	44.6			
FH (60°-80°)	16164.4	35.9			G5
FVH (80°-90°)	513.1	1.1			G4/750
BL (0°-30°)	1397.0	3.1	B3/2500		
BM (30°-60°)	1682.5	3.7	B2/2500		
BH (60°-80°)	1577.8	3.5	B3/2500		G3/2500
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: 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°	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7
2.5°	10280.3	10301.3	10298.8	10314.5	10351.3	10354.0	10317.2	10246.2	10230.3	10138.4	9977.9
5°	9480.8	9541.4	9578.1	9728.1	9896.3	10098.9	10251.4	10306.6	10298.8	10233.0	9991.1
7.5°	8568.2	8628.8	8670.8	8847.0	9070.6	9417.7	9814.8	10140.9	10169.9	10240.9	9980.5
10°	7960.7	7971.2	8029.1	8197.4	8431.5	8786.5	9260.0	9830.7	9917.4	10177.7	9954.2
12.5°	7461.1	7469.0	7545.2	7726.7	7976.6	8334.2	8831.2	9491.3	9625.5	10098.9	9948.9
15°	7106.0	7135.0	7203.3	7392.7	7658.3	8013.4	8523.5	9241.5	9401.9	10069.9	9996.3
17.5°	6987.7	7019.3	7040.3	7177.0	7419.0	7766.1	8289.5	9078.5	9260.0	10085.7	10088.3
20°	7111.2	7135.0	7087.6	7121.8	7271.7	7582.0	8092.3	8939.1	9154.7	10104.1	10206.7
22.5°	7571.5	7582.0	7453.2	7303.3	7277.0	7447.9	7937.1	8828.6	9060.1	10154.1	10346.1
25°	8360.5	8342.1	8131.7	7808.2	7503.1	7424.3	7845.0	8760.2	9012.7	10206.7	10490.8
27.5°	9312.5	9338.8	9049.5	8578.8	7997.5	7582.0	7831.9	8731.3	8991.6	10243.5	10617.0
30°	10469.7	10506.5	10175.1	9583.4	8749.7	7971.2	7952.8	8726.1	8978.5	10219.9	10627.4
32.5°	11650.5	11695.2	11434.9	10824.8	9754.3	8623.5	8226.4	8783.9	9004.8	10138.4	10567.0
35°	12886.6	12949.7	12776.1	12252.8	11116.6	9565.0	8707.7	8960.1	9128.4	10130.4	10506.5
37.5°	14593.4	14651.2	14325.1	13770.2	12765.6	10827.3	9480.8	9291.5	9420.4	10256.6	10522.3
40°	17141.8	17133.9	16292.3	15442.9	14577.6	12431.6	10567.0	9891.1	9956.9	10638.0	10716.9
42.5°	19919.0	19905.8	18661.9	17370.6	16589.5	14406.6	11995.0	10927.3	10882.6	11340.2	11221.9
45°	22059.7	22057.1	21041.9	19587.6	19011.6	16673.7	13841.2	12368.5	12300.1	12481.5	12152.9
47.5°	22972.3	22988.1	22477.9	21454.9	21696.8	19740.1	16168.7	14456.6	14354.0	14280.4	13780.8
50°	22262.2	22293.8	22335.8	22135.9	23666.6	23861.2	19290.4	17399.5	17349.6	17020.8	16239.8
52.5°	19942.6	20103.0	20597.5	21231.2	24350.3	27816.6	24184.7	21055.1	20786.9	20437.0	19577.0
55°	16034.5	16210.8	17149.7	18688.2	23332.6	30415.0	31043.5	25767.9	25320.8	24276.8	23035.4
57.5°	10611.7	10885.2	12247.5	14204.2	20376.6	30833.1	37886.5	32308.5	30751.5	27892.9	26493.7
60°	5846.3	6109.3	7587.3	9359.9	14717.0	28766.0	42488.9	40824.1	38073.2	31935.0	30693.7
62.5°	3600.4	3742.4	4833.7	6482.7	8826.0	22704.1	43440.9	51525.2	48340.5	37139.7	35766.9
65°	2866.6	2927.1	3460.9	5299.3	6327.6	13504.6	40366.6	59683.2	58620.8	43440.9	40308.7
67°	2782.4	2806.2	3058.6	4549.8	5964.6	8278.9	33818.0	61011.3	62089.6	47254.3	40450.6
67.5°	2800.8	2827.1	3066.5	4342.0	5954.1	7608.3	31561.6	60488.0	61850.3	47556.7	39822.1
70°	2700.9	2782.4	3511.0	4339.4	5662.2	6322.3	18901.2	52408.9	53826.4	44187.8	33789.1
72.5°	957.3	962.6	1517.4	3511.0	6156.6	6390.7	9491.3	38420.4	39469.7	33802.3	24360.9
75°	568.0	483.9	504.9	999.3	5883.1	6206.5	5475.4	24550.2	24942.1	19369.3	12336.9
77.5°	391.9	341.9	352.4	441.8	2240.7	6119.8	4349.9	12802.4	12384.3	6793.1	2627.2
80°	223.5	197.2	210.4	386.6	815.3	5709.5	4102.6	5191.5	4426.1	1151.9	725.9
82.5°	118.4	99.9	121.0	318.2	568.0	3558.2	4110.5	2508.9	1988.2	389.2	494.4
85°	42.0	34.2	57.9	218.3	378.7	1091.4	3810.7	2109.2	1656.9	189.3	376.0
87.5°	7.9	7.9	23.6	89.4	152.5	334.0	2253.9	1251.9	838.9	113.0	257.7
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°	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7	9943.7
2.5°	9912.2	9799.1	9646.5	9459.8	9238.9	9044.3	8899.7	8749.7	8718.2	8665.5	8657.6
5°	9846.4	9651.7	9273.0	8839.1	8376.2	7958.1	7618.8	7316.5	7182.3	7066.5	7053.5
7.5°	9749.1	9457.2	8812.8	8113.3	7390.1	6732.6	6175.0	5780.6	5417.6	5244.1	5217.8
10°	9636.0	9217.8	8294.7	7324.3	6324.9	5396.6	4568.2	3873.8	3453.1	3203.3	3171.7
12.5°	9530.8	8983.8	7766.1	6506.4	5178.3	3937.0	2871.8	2209.2	1767.4	1588.4	1567.5
15°	9480.8	8794.4	7271.7	5670.1	3979.1	2506.3	1570.0	1215.1	1070.4	1028.3	1025.7
17.5°	9475.6	8634.0	6787.8	4804.9	2787.7	1457.0	1023.1	933.6	904.7	894.2	894.2
20°	9472.9	8481.5	6303.9	3908.1	1769.9	970.5	852.1	831.0	810.0	796.9	796.9
22.5°	9501.9	8344.7	5799.0	2992.8	1115.1	786.3	749.5	728.4	702.2	683.7	681.2
25°	9530.8	8239.6	5283.5	2130.2	807.4	683.7	646.9	618.1	581.2	557.5	555.0
27.5°	9536.0	8108.0	4731.2	1425.4	675.9	597.0	549.6	504.9	462.9	439.2	436.6
30°	9457.2	7887.2	4118.4	962.6	597.0	518.1	455.0	407.6	368.2	349.7	349.7
32.5°	9302.0	7613.6	3445.2	725.9	531.2	444.5	376.0	331.3	305.0	297.2	294.5
35°	9162.6	7319.0	2753.5	615.4	476.0	376.0	307.7	278.8	263.0	260.3	257.7
37.5°	9081.0	7082.4	2103.9	557.5	423.4	315.6	260.3	239.4	231.4	226.2	228.8
40°	9144.2	6885.1	1554.3	510.2	370.8	263.0	221.0	210.4	202.5	199.9	199.9
42.5°	9420.4	6850.9	1154.5	468.1	320.9	218.3	192.0	184.1	178.8	176.3	178.8
45°	10146.2	7061.3	896.8	428.7	270.9	184.1	163.1	160.4	157.8	157.8	157.8
47.5°	11237.6	7495.3	746.9	384.0	226.2	157.8	142.0	139.4	136.8	139.4	139.4
50°	13086.4	8289.5	668.0	339.2	186.7	134.1	121.0	121.0	121.0	121.0	123.6
52.5°	15897.8	9851.6	615.4	294.5	152.5	113.0	102.6	102.6	105.2	105.2	107.8
55°	19030.1	11924.0	568.0	249.8	128.9	94.7	84.2	86.7	89.4	92.1	92.1
57.5°	22427.9	14219.9	528.7	205.1	110.5	76.3	71.0	73.7	76.3	81.5	81.5
60°	26528.0	16705.2	470.8	160.4	92.1	60.5	55.2	60.5	68.3	73.7	76.3
62.5°	31030.4	19108.9	397.1	126.2	76.3	47.4	44.7	55.2	65.8	71.0	73.7
65°	34107.3	19863.8	305.0	102.6	57.9	34.2	36.8	49.9	63.1	71.0	71.0
67°	32860.8	18009.7	249.8	86.7	47.4	26.3	34.2	49.9	63.1	68.3	71.0
67.5°	31995.5	17283.8	239.4	84.2	44.7	26.3	34.2	49.9	63.1	71.0	71.0
70°	26033.5	12983.9	199.9	63.1	36.8	23.6	28.9	47.4	60.5	68.3	68.3
72.5°	18088.5	8005.4	178.8	44.7	31.6	21.1	26.3	44.7	57.9	65.8	68.3
75°	8599.8	2898.1	152.5	34.2	28.9	18.4	23.6	44.7	57.9	65.8	65.8
77.5°	1754.2	673.3	123.6	28.9	23.6	18.4	21.1	42.0	55.2	63.1	63.1
80°	575.9	260.3	92.1	26.3	23.6	18.4	21.1	39.5	55.2	60.5	63.1
82.5°	415.5	131.4	60.5	26.3	23.6	18.4	18.4	39.5	52.6	60.5	60.5
85°	318.2	92.1	39.5	26.3	23.6	18.4	18.4	36.8	49.9	57.9	57.9
87.5°	210.4	36.8	31.6	26.3	23.6	18.4	18.4	36.8	47.4	55.2	57.9
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)