

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: P191068

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191068
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-SL2-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 54761.6 lumens
Efficiency: N/A
Efficacy: 85.6 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): 640
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

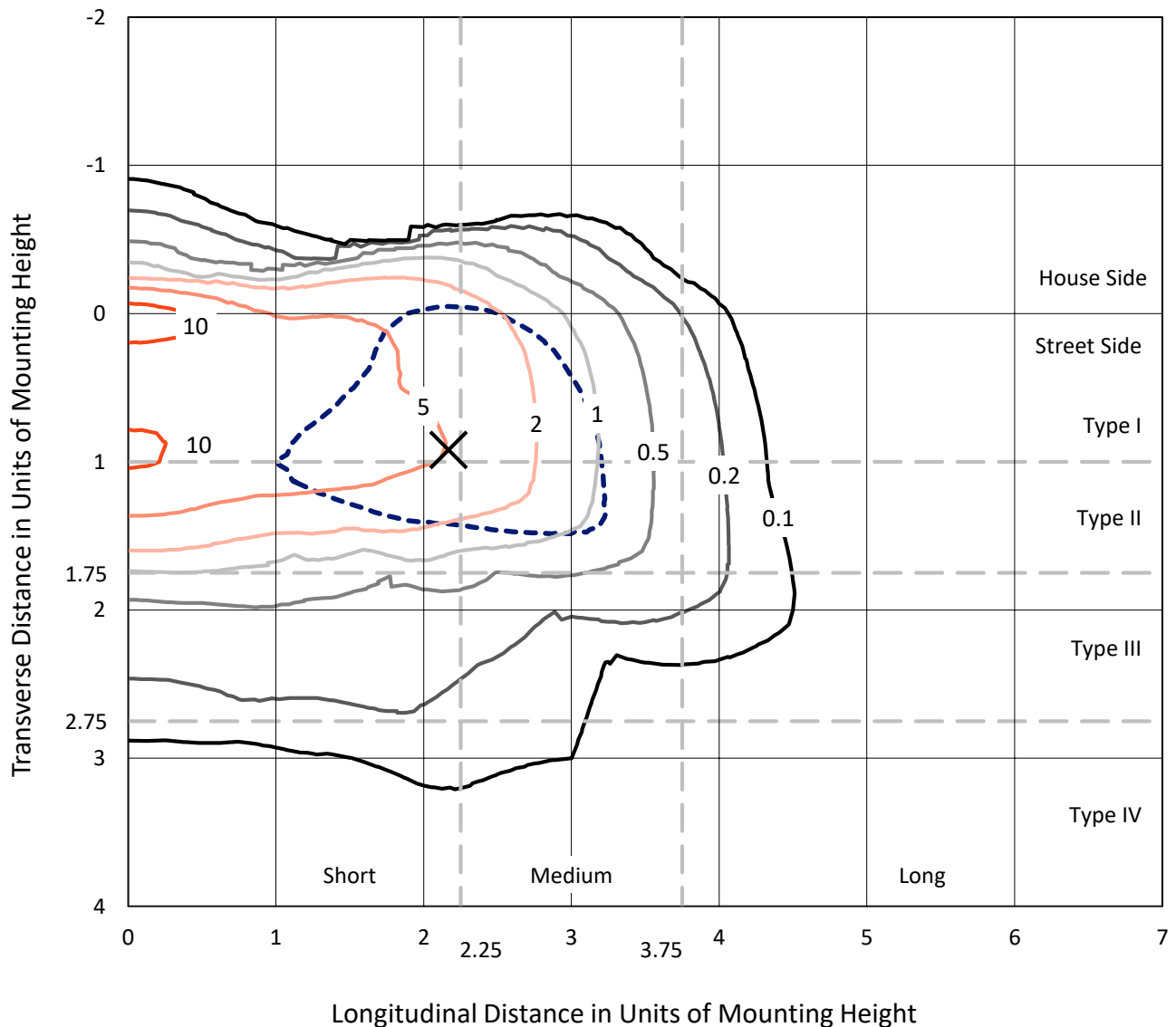


REPORT NUMBER: P191068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

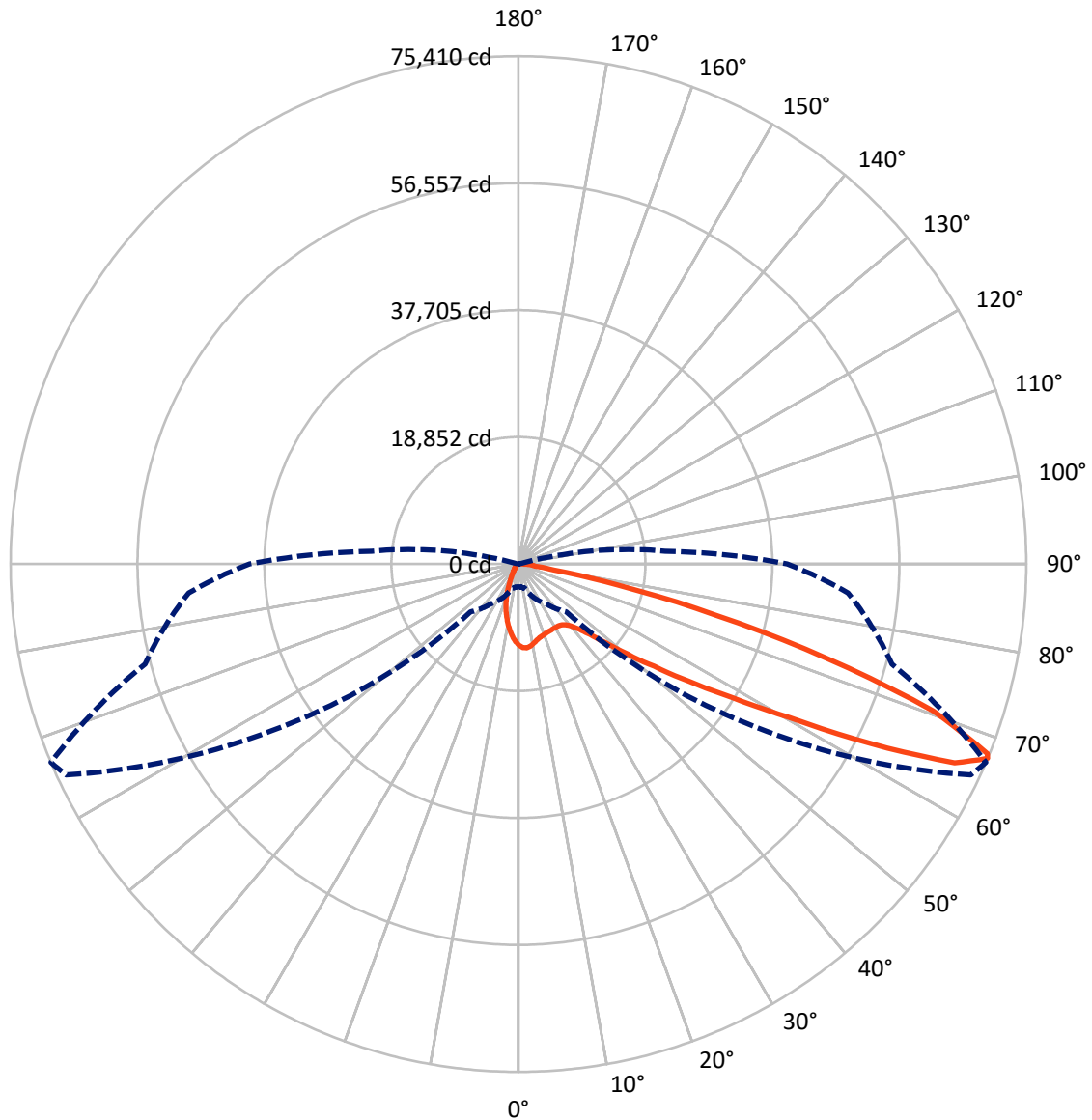
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P191068
CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P191068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5685.9	0.0	5685.9
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	49075.7	0.0	49075.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	54761.6	0.0	54761.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	982.7	1.8
10°-20°	2091.5	3.8
20°-30°	3040.9	5.6
30°-40°	4743.9	8.7
40°-50°	8403.6	15.3
50°-60°	13297.9	24.3
60°-70°	15230.9	27.8
70°-80°	6317.7	11.5
80°-90°	652.6	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°	54761.6	100.0
0°-180°	54761.6	100.0

Coefficient of Utilization



REPORT NUMBER: P191068

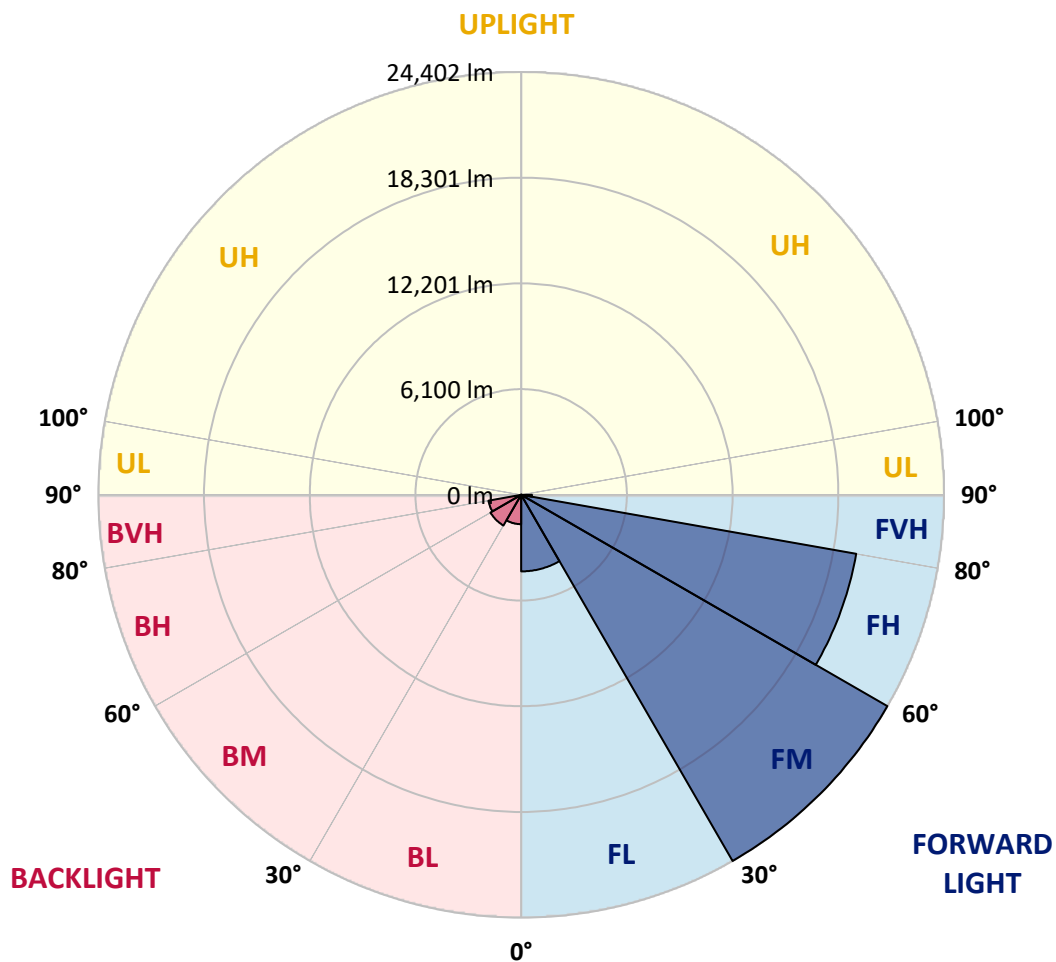
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4418.4	8.1			
FM (30°-60°)	24401.9	44.6			
FH (60°-80°)	19632.2	35.9			G5
FVH (80°-90°)	623.2	1.1			G4/750
BL (0°-30°)	1696.7	3.1	B3/2500		
BM (30°-60°)	2043.5	3.7	B2/2500		
BH (60°-80°)	1916.4	3.5	B3/2500		G3/2500
BVH (80°-90°)	29.4	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





REPORT NUMBER: P191068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0
2.5°	12485.8	12511.4	12508.1	12527.4	12572.1	12575.2	12530.5	12444.3	12425.2	12313.4	12118.5
5°	11514.8	11588.3	11633.0	11815.1	12019.5	12265.4	12450.6	12517.7	12508.1	12428.3	12134.4
7.5°	10406.5	10479.9	10531.0	10745.0	11016.5	11438.1	11920.4	12316.5	12351.6	12437.9	12121.7
10°	9668.6	9681.4	9751.7	9956.1	10240.4	10671.5	11246.5	11939.6	12045.0	12361.2	12089.7
12.5°	9061.7	9071.3	9163.9	9384.3	9687.8	10122.2	10725.8	11527.5	11690.5	12265.4	12083.3
15°	8630.5	8665.6	8748.7	8978.6	9301.3	9732.5	10352.2	11224.1	11419.0	12230.3	12140.9
17.5°	8486.8	8525.1	8550.6	8716.8	9010.6	9432.2	10067.9	11026.1	11246.5	12249.4	12252.6
20°	8636.9	8665.6	8608.1	8649.7	8831.7	9208.6	9828.3	10856.8	11118.8	12271.8	12396.3
22.5°	9195.8	9208.6	9052.1	8870.1	8838.1	9045.7	9639.9	10722.7	11003.8	12332.5	12565.6
25°	10154.1	10131.7	9876.2	9483.4	9112.9	9017.0	9528.1	10639.6	10946.3	12396.3	12741.4
27.5°	11310.4	11342.3	10991.0	10419.2	9713.3	9208.6	9512.1	10604.5	10920.7	12441.1	12894.7
30°	12715.8	12760.5	12358.1	11639.3	10626.8	9681.4	9659.0	10598.1	10904.8	12412.4	12907.4
32.5°	14150.0	14204.3	13888.0	13147.0	11847.0	10473.5	9991.2	10668.4	10936.7	12313.4	12833.9
35°	15651.1	15727.9	15517.0	14881.4	13501.5	11617.0	10575.7	10882.4	11086.7	12303.7	12760.5
37.5°	17724.2	17794.4	17398.3	16724.4	15504.3	13150.1	11514.8	11284.8	11441.3	12457.1	12779.6
40°	20819.3	20809.7	19787.6	18755.9	17705.0	15098.5	12833.9	12013.1	12092.9	12920.2	13016.0
42.5°	24192.3	24176.3	22665.4	21097.1	20148.4	17497.4	14568.4	13271.6	13217.2	13773.0	13629.3
45°	26792.3	26789.0	25556.2	23789.7	23090.3	20250.7	16810.7	15021.9	14938.9	15159.3	14760.1
47.5°	27900.6	27919.8	27300.1	26057.6	26351.5	23975.0	19637.5	17558.0	17433.5	17344.0	16737.2
50°	27038.2	27076.6	27127.6	26884.9	28743.9	28980.2	23428.8	21132.3	21071.6	20672.3	19723.7
52.5°	24221.0	24415.8	25016.4	25786.1	29574.3	33784.2	29373.1	25572.1	25246.3	24821.5	23777.1
55°	19474.5	19688.5	20828.8	22697.4	28338.2	36940.0	37703.4	31296.0	30753.0	29484.9	27977.3
57.5°	12888.3	13220.4	14875.0	17251.5	24748.0	37447.9	46014.5	39239.8	37348.9	33876.9	32177.5
60°	7100.5	7420.0	9215.0	11367.8	17874.3	34937.2	51604.2	49582.3	46241.3	38786.2	37278.6
62.5°	4372.7	4545.3	5870.8	7873.6	10719.5	27574.9	52760.4	62579.1	58711.1	45107.3	43440.0
65°	3481.6	3555.1	4203.5	6436.1	7685.0	16401.8	49026.6	72487.3	71196.9	52760.4	48956.3
67°	3379.4	3408.2	3714.7	5525.8	7244.2	10055.1	41073.2	74100.3	75409.9	57391.9	49128.7
67.5°	3401.7	3433.6	3724.4	5273.5	7231.4	9240.6	38332.6	73464.7	75119.3	57759.3	48365.3
70°	3280.4	3379.4	4264.2	5270.3	6876.9	7678.7	22956.1	63652.4	65374.0	53667.6	41038.0
72.5°	1162.7	1169.0	1843.1	4264.2	7477.5	7761.7	11527.5	46662.8	47937.3	41054.0	29587.1
75°	690.0	587.7	613.3	1213.7	7145.2	7538.1	6650.2	29817.1	30293.1	23524.7	14983.6
77.5°	475.9	415.2	428.0	536.6	2721.4	7432.8	5283.0	15549.0	15041.1	8250.4	3190.9
80°	271.5	239.6	255.5	469.5	990.2	6934.5	4982.8	6305.2	5375.7	1399.0	881.6
82.5°	143.7	121.4	146.9	386.5	690.0	4321.7	4992.4	3047.2	2414.8	472.7	600.5
85°	51.1	41.5	70.3	265.1	459.9	1325.5	4628.2	2561.7	2012.2	230.0	456.7
87.5°	9.6	9.6	28.7	108.6	185.3	405.7	2737.3	1520.4	1019.0	137.4	313.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P191068

CATALOG NUMBER: GLEON-AF-10-LED-E1-SL2-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0	12077.0
2.5°	12038.6	11901.3	11716.1	11489.3	11221.0	10984.5	10808.9	10626.8	10588.5	10524.6	10515.0
5°	11958.8	11722.4	11262.5	10735.5	10173.2	9665.4	9253.4	8886.1	8723.1	8582.6	8566.6
7.5°	11840.6	11486.0	10703.4	9853.9	8975.5	8177.0	7499.8	7020.7	6579.9	6369.1	6337.2
10°	11703.3	11195.4	10074.2	8895.6	7681.8	6554.4	5548.2	4705.0	4193.9	3890.5	3852.1
12.5°	11575.5	10911.1	9432.2	7902.3	6289.2	4781.6	3488.0	2683.1	2146.5	1929.3	1903.7
15°	11514.8	10681.1	8831.7	6886.5	4832.7	3044.0	1906.9	1475.7	1300.0	1248.9	1245.7
17.5°	11508.4	10486.3	8244.1	5835.6	3385.8	1769.5	1242.5	1133.9	1098.8	1086.0	1086.0
20°	11505.2	10301.0	7656.3	4746.5	2149.6	1178.6	1034.9	1009.3	983.8	967.8	967.8
22.5°	11540.3	10135.0	7043.0	3635.0	1354.3	955.0	910.3	884.8	852.8	830.4	827.3
25°	11575.5	10007.2	6417.0	2587.2	980.6	830.4	785.7	750.6	705.9	677.2	673.9
27.5°	11581.8	9847.4	5746.2	1731.2	820.9	725.1	667.6	613.3	562.2	533.5	530.2
30°	11486.0	9579.1	5002.0	1169.0	725.1	629.2	552.6	495.1	447.1	424.8	424.8
32.5°	11297.6	9247.0	4184.3	881.6	645.2	539.8	456.7	402.4	370.5	360.9	357.7
35°	11128.3	8889.2	3344.2	747.5	578.2	456.7	373.7	338.6	319.4	316.2	313.0
37.5°	11029.3	8601.8	2555.3	677.2	514.2	383.3	316.2	290.6	281.1	274.7	277.9
40°	11106.0	8362.2	1887.8	619.7	450.4	319.4	268.3	255.5	245.9	242.7	242.7
42.5°	11441.3	8320.7	1402.3	568.6	389.6	265.1	233.1	223.6	217.2	214.0	217.2
45°	12322.9	8576.2	1089.2	520.7	329.0	223.6	198.0	194.9	191.6	191.6	191.6
47.5°	13648.5	9103.2	907.2	466.4	274.7	191.6	172.5	169.3	166.1	169.3	169.3
50°	15893.9	10067.9	811.3	412.0	226.8	162.9	146.9	146.9	146.9	146.9	150.2
52.5°	19308.4	11965.1	747.5	357.7	185.3	137.4	124.6	124.6	127.8	127.8	130.9
55°	23112.7	14482.1	690.0	303.4	156.5	115.0	102.2	105.4	108.6	111.8	111.8
57.5°	27239.4	17270.6	642.0	249.2	134.1	92.7	86.2	89.4	92.7	99.0	99.0
60°	32219.1	20289.0	571.7	194.9	111.8	73.4	67.1	73.4	83.1	89.4	92.7
62.5°	37687.3	23208.5	482.3	153.3	92.7	57.5	54.3	67.1	79.9	86.2	89.4
65°	41424.5	24125.2	370.5	124.6	70.3	41.5	44.7	60.7	76.6	86.2	86.2
67°	39910.5	21873.3	303.4	105.4	57.5	31.9	41.5	60.7	76.6	83.1	86.2
67.5°	38859.7	20991.8	290.6	102.2	54.3	31.9	41.5	60.7	76.6	86.2	86.2
70°	31618.6	15769.4	242.7	76.6	44.7	28.7	35.1	57.5	73.4	83.1	83.1
72.5°	21969.1	9722.9	217.2	54.3	38.4	25.6	31.9	54.3	70.3	79.9	83.1
75°	10444.7	3519.9	185.3	41.5	35.1	22.4	28.7	54.3	70.3	79.9	79.9
77.5°	2130.5	817.6	150.2	35.1	28.7	22.4	25.6	51.1	67.1	76.6	76.6
80°	699.5	316.2	111.8	31.9	28.7	22.4	25.6	47.9	67.1	73.4	76.6
82.5°	504.6	159.7	73.4	31.9	28.7	22.4	22.4	47.9	63.8	73.4	73.4
85°	386.5	111.8	47.9	31.9	28.7	22.4	22.4	44.7	60.7	70.3	70.3
87.5°	255.5	44.7	38.4	31.9	28.7	22.4	22.4	44.7	57.5	67.1	70.3
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)