

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: P193577

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193577
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-SL2-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 615mA 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: 23697 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 290
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

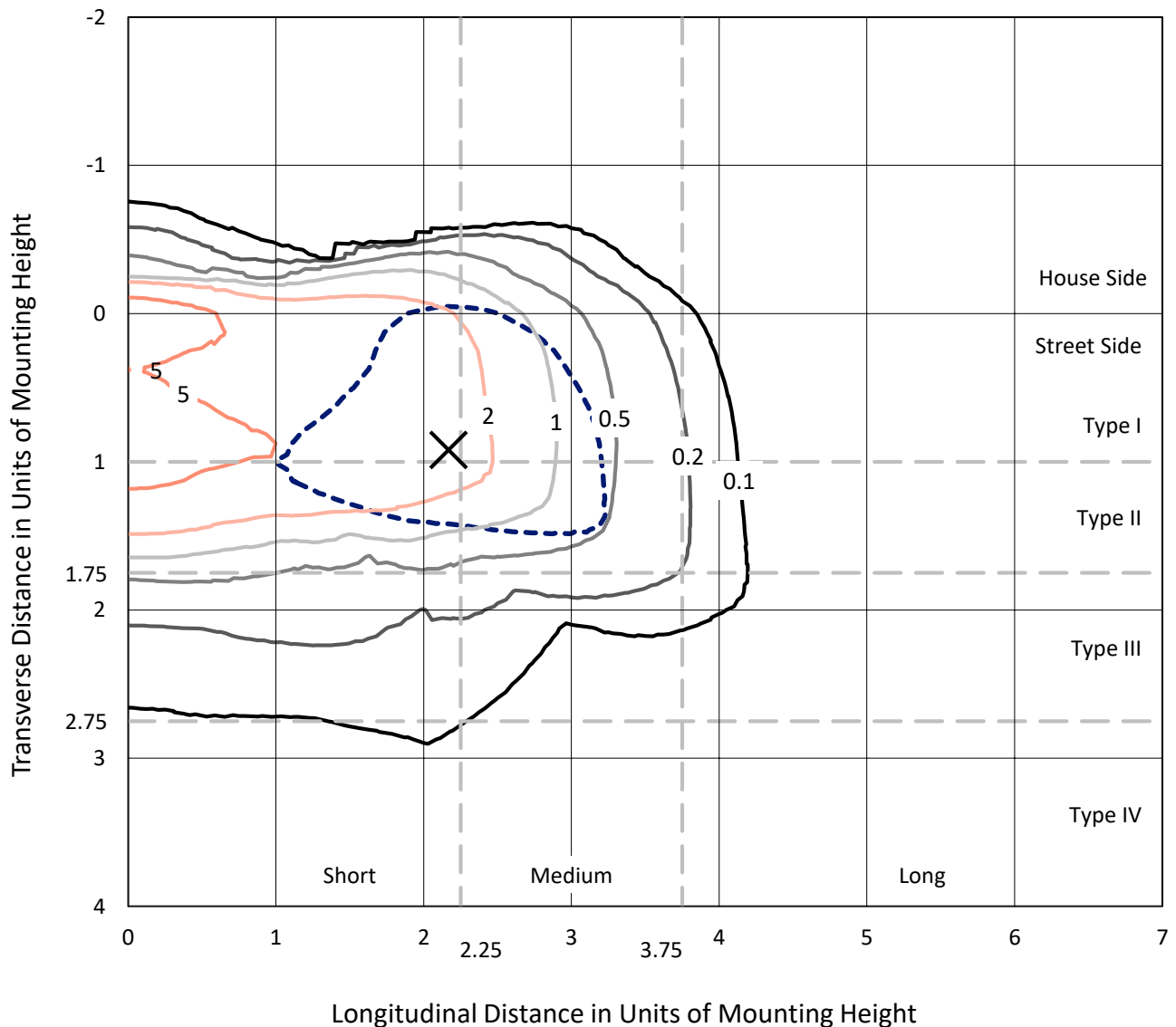


REPORT NUMBER: P193577

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

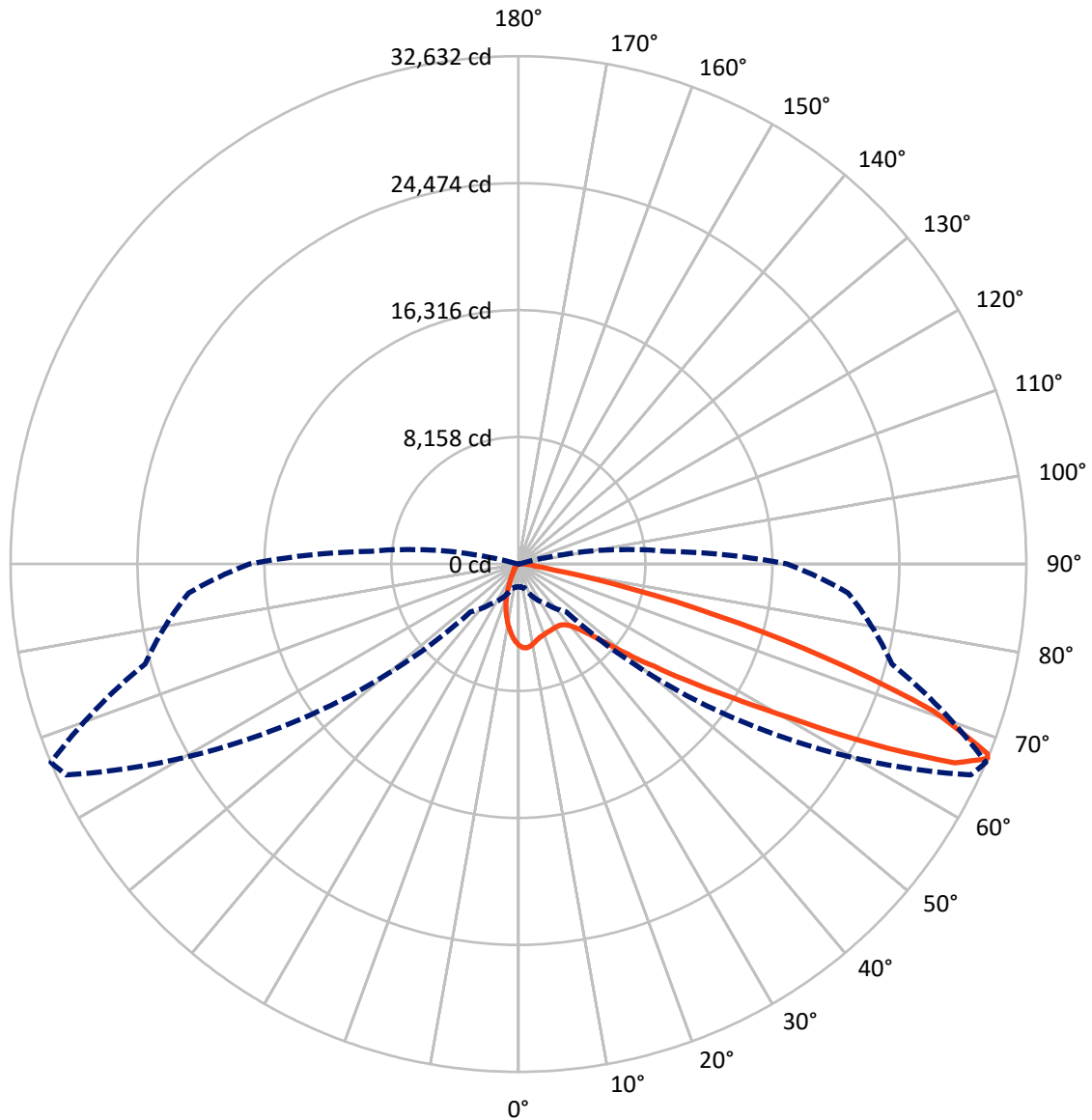


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193577

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-600-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193577

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2460.5	0.0	2460.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	21236.5	0.0	21236.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	23697.0	0.0	23697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	425.2	1.8
10°-20°	905.1	3.8
20°-30°	1315.9	5.6
30°-40°	2052.8	8.7
40°-50°	3636.5	15.3
50°-60°	5754.4	24.3
60°-70°	6590.9	27.8
70°-80°	2733.8	11.5
80°-90°	282.4	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°	23697.0	100.0
0°-180°	23697.0	100.0



REPORT NUMBER: P193577

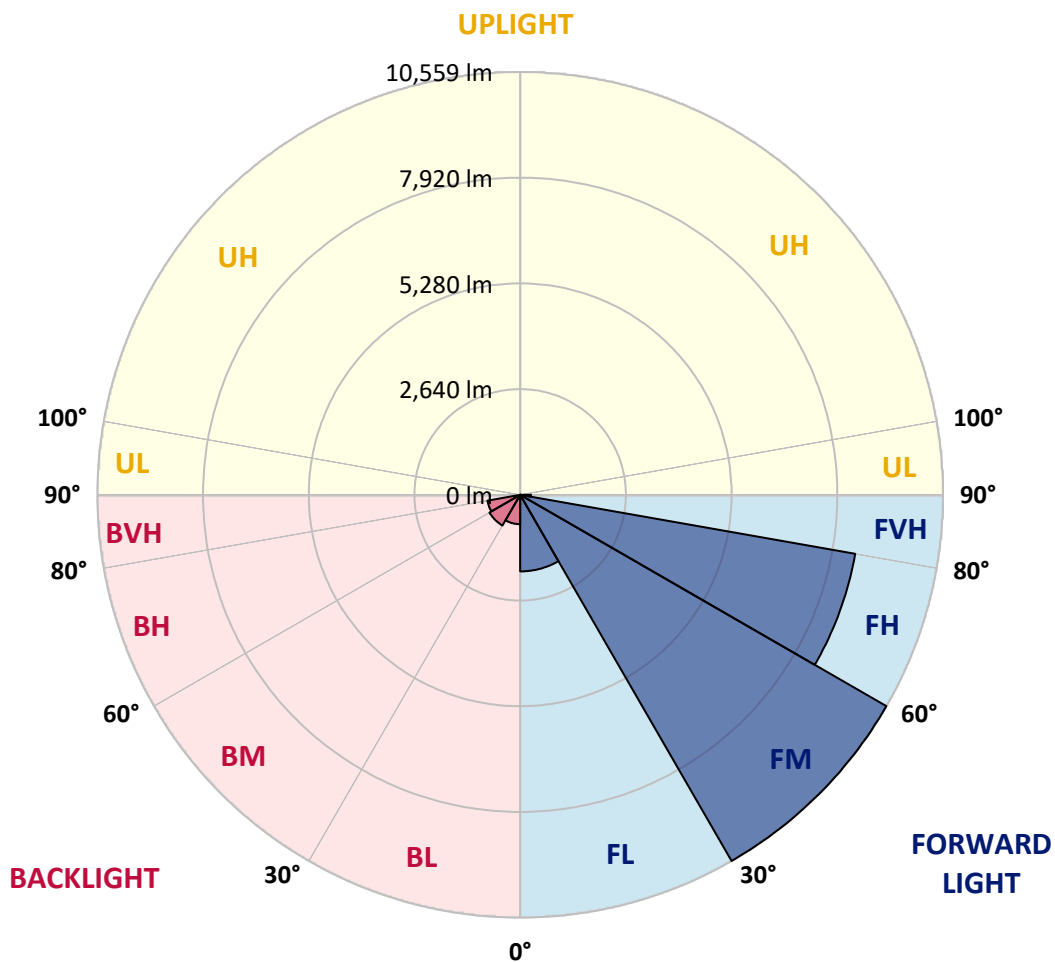
CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-600-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1912.0	8.1			
FM	(30°-60°)	10559.4	44.6			
FH	(60°-80°)	8495.4	35.9			G4/12000
FVH	(80°-90°)	269.7	1.1			G3/500
BL	(0°-30°)	734.2	3.1	B2/1000		
BM	(30°-60°)	884.3	3.7	B1/1000		
BH	(60°-80°)	829.3	3.5	B2/1000		G2/1000
BVH	(80°-90°)	12.7	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short



REPORT NUMBER: P193577

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1
2.5°	5403.0	5414.0	5412.7	5421.0	5440.3	5441.7	5422.3	5385.0	5376.7	5328.3	5244.0
5°	4982.8	5014.6	5033.9	5112.7	5201.2	5307.6	5387.8	5416.8	5412.7	5378.1	5250.9
7.5°	4503.2	4535.0	4557.1	4649.7	4767.2	4949.6	5158.3	5329.7	5344.9	5382.3	5245.4
10°	4183.9	4189.4	4219.8	4308.3	4431.3	4617.9	4866.7	5166.6	5212.2	5349.1	5231.6
12.5°	3921.3	3925.4	3965.5	4060.9	4192.2	4380.2	4641.4	4988.3	5058.8	5307.6	5228.8
15°	3734.7	3749.9	3785.8	3885.3	4024.9	4211.5	4479.7	4857.0	4941.3	5292.4	5253.7
17.5°	3672.5	3689.1	3700.1	3772.0	3899.2	4081.6	4356.7	4771.3	4866.7	5300.7	5302.1
20°	3737.4	3749.9	3725.0	3743.0	3821.8	3984.9	4253.0	4698.1	4811.4	5310.4	5364.3
22.5°	3979.3	3984.9	3917.1	3838.3	3824.5	3914.4	4171.5	4640.0	4761.6	5336.6	5437.5
25°	4394.0	4384.3	4273.7	4103.7	3943.4	3901.9	4123.1	4604.1	4736.8	5364.3	5513.6
27.5°	4894.3	4908.2	4756.1	4508.7	4203.2	3984.9	4116.2	4588.9	4725.7	5383.6	5579.9
30°	5502.5	5521.9	5347.7	5036.7	4598.5	4189.4	4179.7	4586.1	4718.8	5371.2	5585.4
32.5°	6123.1	6146.6	6009.8	5689.1	5126.5	4532.2	4323.5	4616.5	4732.6	5328.3	5553.6
35°	6772.7	6805.9	6714.7	6439.6	5842.5	5027.0	4576.4	4709.1	4797.6	5324.2	5521.9
37.5°	7669.8	7700.2	7528.8	7237.2	6709.2	5690.5	4982.8	4883.3	4951.0	5390.5	5530.1
40°	9009.1	9005.0	8562.7	8116.2	7661.5	6533.6	5553.6	5198.4	5233.0	5591.0	5632.4
42.5°	10468.7	10461.8	9808.0	9129.4	8718.9	7571.6	6304.2	5743.0	5719.5	5960.0	5897.8
45°	11593.8	11592.4	11058.9	10294.6	9991.9	8763.1	7274.5	6500.4	6464.5	6559.9	6387.1
47.5°	12073.4	12081.7	11813.6	11275.9	11403.1	10374.7	8497.7	7597.9	7544.0	7505.3	7242.7
50°	11700.2	11716.8	11738.9	11633.9	12438.3	12540.6	10138.4	9144.6	9118.3	8945.5	8535.0
52.5°	10481.2	10565.5	10825.3	11158.4	12797.7	14619.4	12710.6	11065.8	10924.8	10741.0	10289.0
55°	8427.2	8519.8	9013.3	9821.8	12262.8	15985.0	16315.4	13542.7	13307.7	12759.0	12106.6
57.5°	5577.1	5720.9	6436.9	7465.2	10709.2	16204.8	19911.8	16980.2	16162.0	14659.5	13924.2
60°	3072.6	3210.8	3987.6	4919.2	7734.7	15118.4	22330.7	21455.7	20010.0	16783.9	16131.5
62.5°	1892.2	1966.9	2540.5	3407.1	4638.6	11932.5	22831.0	27079.9	25406.1	19519.3	18797.8
65°	1506.6	1538.4	1819.0	2785.1	3325.6	7097.6	21215.2	31367.4	30809.0	22831.0	21184.8
67°	1462.4	1474.8	1607.5	2391.2	3134.8	4351.1	17773.6	32065.4	32632.1	24835.2	21259.5
67.5°	1472.0	1485.9	1611.6	2282.0	3129.3	3998.7	16587.7	31790.4	32506.4	24994.2	20929.1
70°	1419.5	1462.4	1845.2	2280.6	2975.9	3322.8	9933.8	27544.3	28289.3	23223.6	17758.4
72.5°	503.1	505.9	797.5	1845.2	3235.7	3358.7	4988.3	20192.4	20743.9	17765.3	12803.2
75°	298.6	254.3	265.4	525.2	3092.0	3262.0	2877.7	12902.8	13108.7	10179.8	6483.9
77.5°	205.9	179.7	185.2	232.2	1177.6	3216.4	2286.1	6728.5	6508.7	3570.2	1380.8
80°	117.5	103.7	110.6	203.2	428.5	3000.7	2156.2	2728.4	2326.2	605.4	381.5
82.5°	62.2	52.5	63.6	167.2	298.6	1870.1	2160.4	1318.6	1044.9	204.6	259.9
85°	22.1	18.0	30.4	114.7	199.0	573.6	2002.8	1108.5	870.8	99.5	197.7
87.5°	4.1	4.1	12.4	47.0	80.2	175.5	1184.5	657.9	440.9	59.4	135.5
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: P193577

CATALOG NUMBER: GLEON-AF-09-LED-E1-SL2-8030-600-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1	5226.1
2.5°	5209.5	5150.0	5069.9	4971.7	4855.6	4753.4	4677.3	4598.5	4582.0	4554.3	4550.2
5°	5174.9	5072.6	4873.6	4645.5	4402.3	4182.5	4004.2	3845.3	3774.8	3713.9	3707.0
7.5°	5123.8	4970.4	4631.7	4264.1	3884.0	3538.4	3245.4	3038.1	2847.3	2756.1	2742.3
10°	5064.3	4844.6	4359.4	3849.4	3324.2	2836.3	2400.9	2036.0	1814.8	1683.5	1666.9
12.5°	5009.1	4721.6	4081.6	3419.5	2721.5	2069.1	1509.4	1161.0	928.8	834.8	823.8
15°	4982.8	4622.0	3821.8	2980.0	2091.3	1317.2	825.2	638.6	562.6	540.4	539.1
17.5°	4980.0	4537.7	3567.4	2525.3	1465.1	765.7	537.7	490.7	475.5	469.9	469.9
20°	4978.7	4457.6	3313.1	2053.9	930.2	510.0	447.8	436.8	425.7	418.8	418.8
22.5°	4993.9	4385.7	3047.7	1572.9	586.0	413.3	393.9	382.9	369.0	359.4	358.0
25°	5009.1	4330.4	2776.8	1119.6	424.3	359.4	340.0	324.8	305.5	293.0	291.6
27.5°	5011.8	4261.3	2486.6	749.1	355.2	313.8	288.9	265.4	243.3	230.8	229.4
30°	4970.4	4145.2	2164.5	505.9	313.8	272.3	239.1	214.2	193.5	183.8	183.8
32.5°	4888.8	4001.4	1810.7	381.5	279.2	233.6	197.7	174.2	160.3	156.2	154.8
35°	4815.6	3846.6	1447.2	323.4	250.2	197.7	161.7	146.5	138.2	136.8	135.5
37.5°	4772.7	3722.2	1105.8	293.0	222.5	165.9	136.8	125.8	121.6	118.9	120.3
40°	4805.9	3618.6	816.9	268.1	194.9	138.2	116.1	110.6	106.4	105.0	105.0
42.5°	4951.0	3600.6	606.8	246.0	168.6	114.7	100.9	96.8	94.0	92.6	94.0
45°	5332.5	3711.2	471.3	225.3	142.4	96.8	85.7	84.3	82.9	82.9	82.9
47.5°	5906.1	3939.2	392.5	201.8	118.9	82.9	74.6	73.3	71.9	73.3	73.3
50°	6877.8	4356.7	351.1	178.3	98.1	70.5	63.6	63.6	63.6	63.6	65.0
52.5°	8355.3	5177.7	323.4	154.8	80.2	59.4	53.9	53.9	55.3	55.3	56.7
55°	10001.5	6266.9	298.6	131.3	67.7	49.8	44.2	45.6	47.0	48.4	48.4
57.5°	11787.3	7473.5	277.8	107.8	58.1	40.1	37.3	38.7	40.1	42.8	42.8
60°	13942.2	8779.7	247.4	84.3	48.4	31.8	29.0	31.8	35.9	38.7	40.1
62.5°	16308.5	10043.0	208.7	66.3	40.1	24.9	23.5	29.0	34.6	37.3	38.7
65°	17925.6	10439.7	160.3	53.9	30.4	18.0	19.4	26.3	33.2	37.3	37.3
67°	17270.5	9465.2	131.3	45.6	24.9	13.8	18.0	26.3	33.2	35.9	37.3
67.5°	16815.7	9083.8	125.8	44.2	23.5	13.8	18.0	26.3	33.2	37.3	37.3
70°	13682.3	6823.9	105.0	33.2	19.4	12.4	15.2	24.9	31.8	35.9	35.9
72.5°	9506.7	4207.4	94.0	23.5	16.6	11.1	13.8	23.5	30.4	34.6	35.9
75°	4519.8	1523.2	80.2	18.0	15.2	9.7	12.4	23.5	30.4	34.6	34.6
77.5°	921.9	353.8	65.0	15.2	12.4	9.7	11.1	22.1	29.0	33.2	33.2
80°	302.7	136.8	48.4	13.8	12.4	9.7	11.1	20.7	29.0	31.8	33.2
82.5°	218.4	69.1	31.8	13.8	12.4	9.7	9.7	20.7	27.6	31.8	31.8
85°	167.2	48.4	20.7	13.8	12.4	9.7	9.7	19.4	26.3	30.4	30.4
87.5°	110.6	19.4	16.6	13.8	12.4	9.7	9.7	19.4	24.9	29.0	30.4
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)