

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: P193616

Luminaire Tested: **GLEON-AF-08-LED-E1-SL2-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193616  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-08-LED-E1-SL2-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25125 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 257  
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

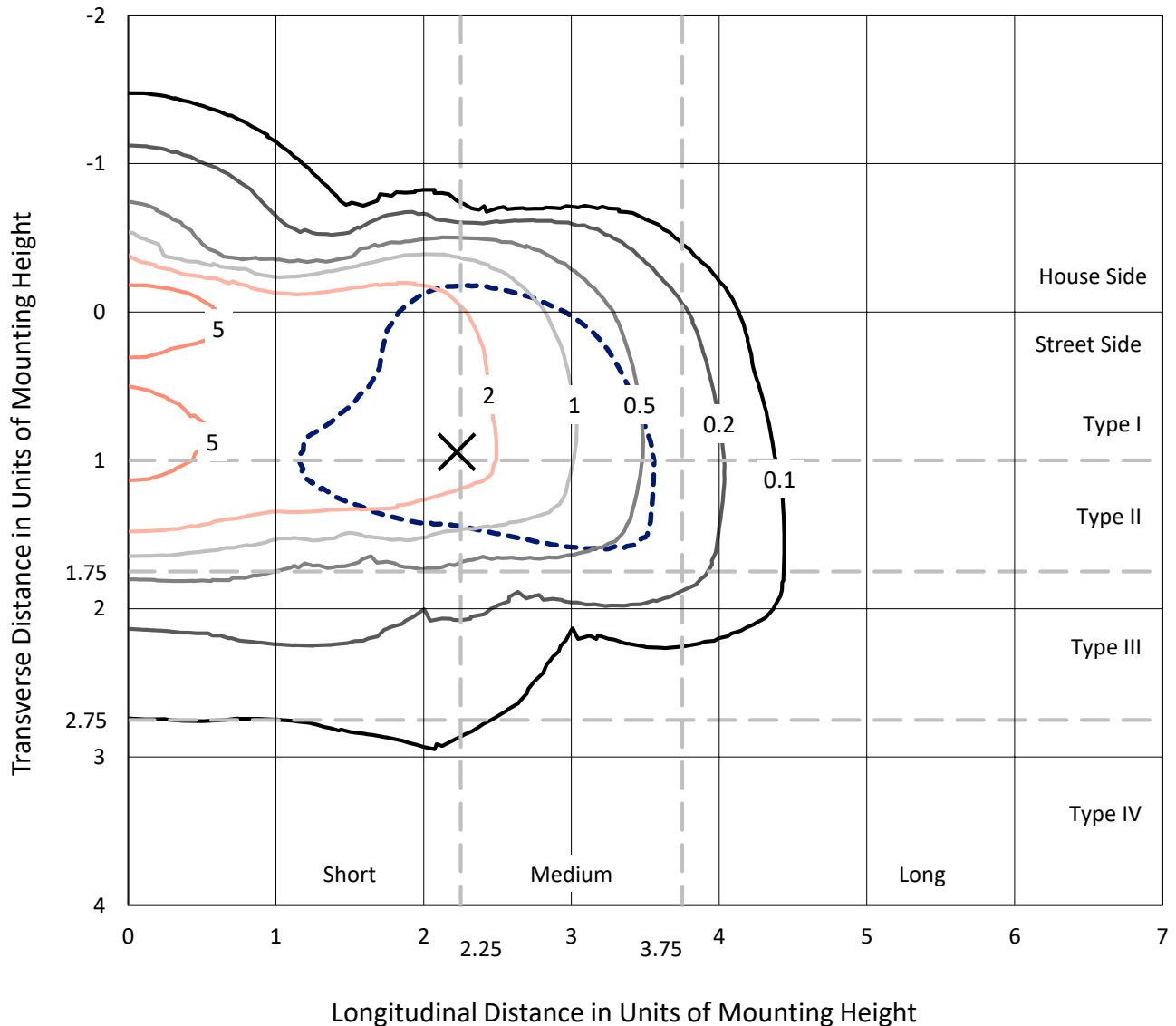


REPORT NUMBER: P193616

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-600

### Iso-Footcandle Lines of Horizontal Illumination

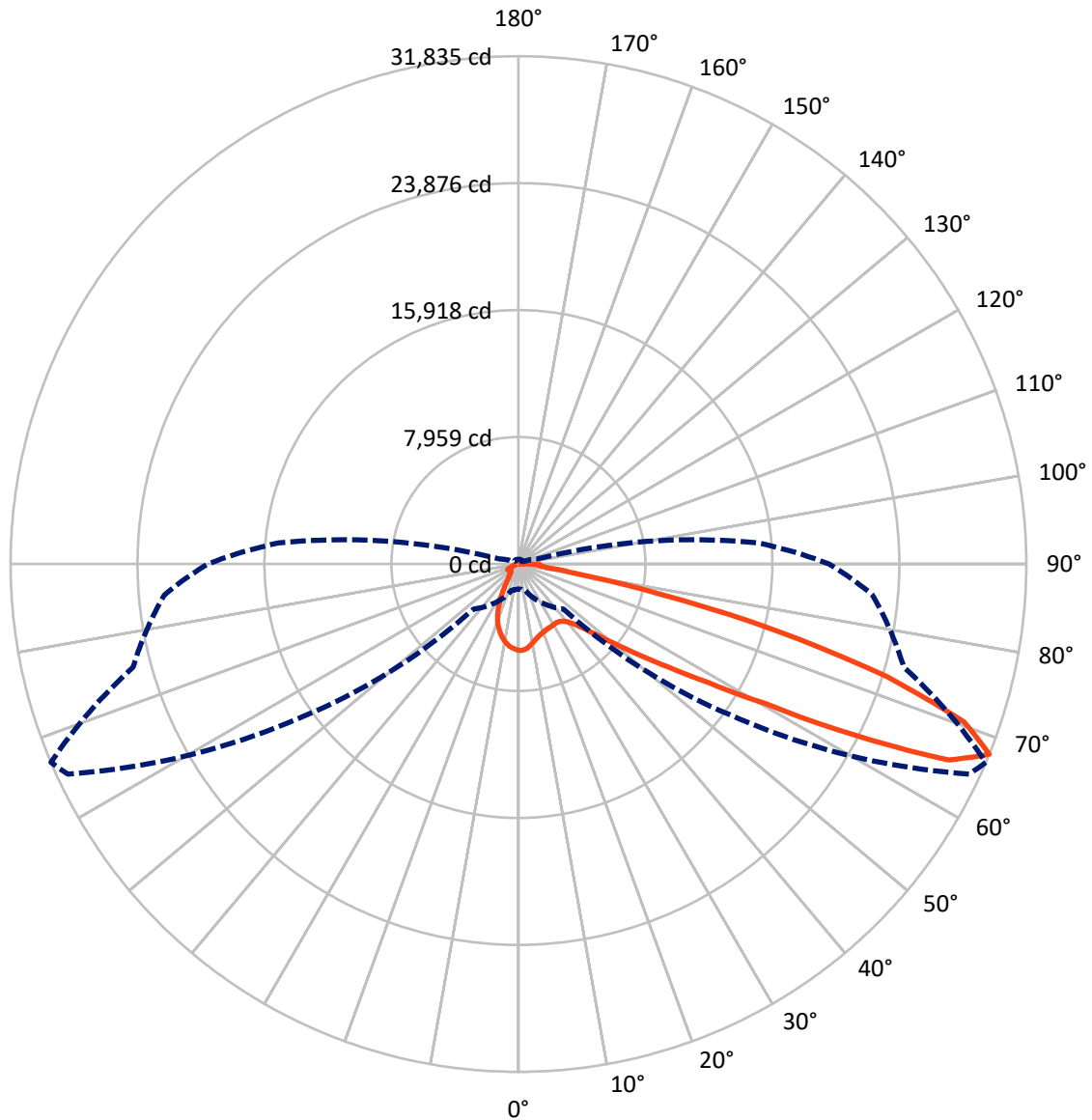
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P193616  
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-600

### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P193616

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-600

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4162.9	0.0	4162.9
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	20962.1	0.0	20962.1
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	25125.0	0.0	25125.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	462.4	1.8
10°-20°	1069.8	4.3
20°-30°	1450.2	5.8
30°-40°	2061.6	8.2
40°-50°	3449.1	13.7
50°-60°	5456.4	21.7
60°-70°	6950.9	27.7
70°-80°	3640.9	14.5
80°-90°	583.9	2.3
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°	25125.0	100.0
0°-180°	25125.0	100.0



REPORT NUMBER: P193616

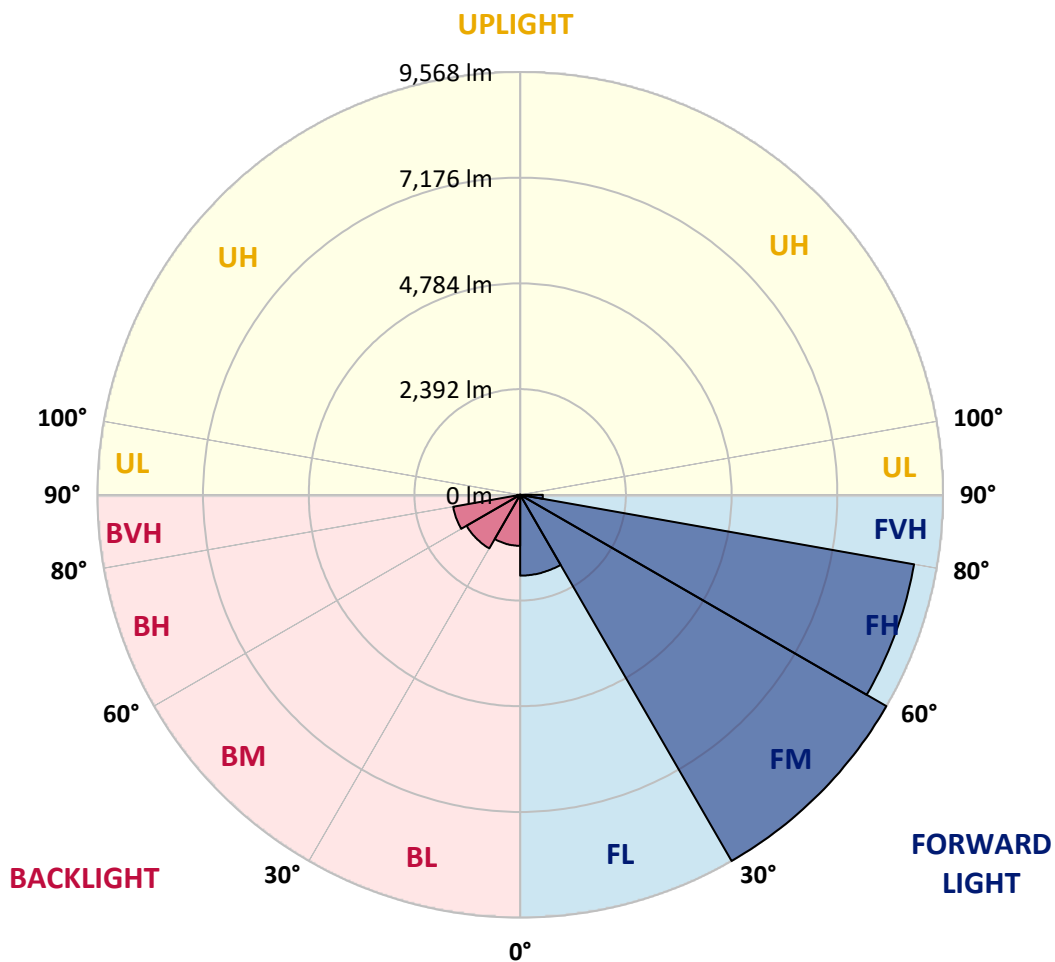
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-600

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1828.5	7.3			
FM (30°-60°)	9568.1	38.1			
FH (60°-80°)	9052.0	36.0			G4/12000
FVH (80°-90°)	513.4	2.0			G4/750
BL (0°-30°)	1153.9	4.6	B3/2500		
BM (30°-60°)	1398.9	5.6	B2/2500		
BH (60°-80°)	1539.7	6.1	B3/2500		G3/2500
BVH (80°-90°)	70.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





REPORT NUMBER: P193616

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-600

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4
2.5°	5196.4	5205.1	5232.3	5249.7	5327.7	5361.2	5384.7	5408.2	5412.0	5423.1	5412.0
5°	4651.2	4669.8	4720.6	4777.6	4928.8	5047.7	5172.8	5302.9	5326.5	5410.7	5434.3
7.5°	4228.7	4223.8	4265.9	4334.0	4488.9	4653.7	4873.0	5132.0	5182.8	5372.3	5464.0
10°	3920.2	3916.5	3961.1	4031.7	4179.2	4335.3	4583.1	4937.4	5009.3	5311.6	5492.5
12.5°	3692.2	3693.5	3738.1	3816.1	3966.0	4123.4	4374.9	4749.1	4840.8	5241.0	5522.2
15°	3541.1	3551.0	3586.9	3669.9	3816.1	3973.5	4220.0	4607.9	4710.7	5185.2	5555.7
17.5°	3490.3	3506.4	3518.8	3579.5	3704.6	3862.0	4103.6	4503.8	4612.8	5146.8	5585.4
20°	3537.4	3555.9	3532.4	3553.5	3632.8	3771.5	4011.9	4422.0	4533.5	5103.5	5589.1
22.5°	3739.3	3756.7	3687.3	3626.6	3621.6	3705.9	3936.3	4357.6	4472.8	5071.2	5590.4
25°	4094.9	4106.1	3989.6	3848.3	3710.8	3682.3	3883.0	4313.0	4435.6	5042.7	5566.8
27.5°	4531.0	4539.7	4405.9	4197.7	3921.4	3738.1	3864.5	4287.0	4414.6	5018.0	5527.2
30°	5061.3	5102.2	4922.6	4659.9	4257.2	3902.9	3901.6	4273.3	4391.0	4975.8	5449.1
32.5°	5604.0	5621.4	5497.5	5231.1	4709.5	4192.8	4005.7	4283.2	4384.8	4925.0	5350.0
35°	6154.1	6176.4	6095.9	5881.5	5327.7	4617.8	4208.9	4341.5	4423.2	4907.7	5280.6
37.5°	6866.6	6896.3	6784.8	6537.0	6079.8	5193.9	4547.1	4487.7	4540.9	4957.3	5259.6
40°	7992.8	7979.2	7653.3	7284.1	6902.5	5931.1	5030.4	4735.5	4766.4	5117.1	5324.0
42.5°	9303.7	9270.2	8709.0	8129.1	7807.0	6823.2	5669.7	5165.4	5159.2	5431.8	5550.7
45°	10349.4	10322.1	9816.6	9101.7	8844.0	7839.2	6496.1	5806.0	5760.1	5931.1	5969.5
47.5°	10915.6	10916.9	10625.7	10042.1	10035.9	9130.2	7557.9	6732.7	6653.4	6734.0	6693.1
50°	10717.4	10743.4	10712.4	10526.6	11123.8	10822.7	8944.4	8025.0	7865.2	7944.5	7787.1
52.5°	9758.4	9791.8	9975.2	10260.2	11581.0	12868.3	10981.3	9630.8	9444.9	9416.4	9241.7
55°	8058.5	8099.4	8473.5	9247.9	11200.6	14242.3	14195.3	11677.6	11381.5	11112.6	11038.3
57.5°	5554.5	5622.6	6224.8	7374.5	9970.3	14657.4	18022.5	14595.5	13993.3	13054.1	13071.5
60°	3131.0	3210.3	3920.2	4964.7	7487.3	14206.4	20934.2	19015.0	17743.8	15327.7	15456.6
62.5°	1991.1	2076.6	2615.5	3449.4	4492.6	11778.0	22127.4	25159.2	23544.8	18130.3	18256.7
65°	1611.9	1649.1	1903.1	2847.2	3262.3	7095.8	21221.7	30220.5	29618.4	21687.5	21097.8
67.5°	1573.5	1585.9	1717.3	2390.0	3128.5	3988.4	16927.3	31167.1	31835.0	25009.3	22281.0
70°	1554.9	1598.3	1935.3	2281.0	2995.9	3363.9	10172.2	28572.7	29627.0	25877.8	20706.2
72.5°	754.6	752.1	973.9	2062.9	3375.0	3489.0	5226.1	23118.6	24176.7	22419.8	17015.2
75°	608.4	556.3	531.5	755.8	3244.9	3603.0	3330.4	15907.6	16673.3	15031.6	10459.7
77.5°	577.4	515.4	472.1	473.3	1371.6	3821.1	2821.2	8804.4	9027.4	6789.7	2865.8
80°	478.3	421.3	390.3	439.8	664.1	3639.0	3050.4	3984.6	3656.3	1667.7	954.0
82.5°	332.1	302.3	293.6	369.2	531.5	2593.2	3547.3	2141.0	1795.3	835.1	588.5
85°	211.9	180.9	200.7	268.9	413.8	1196.9	3653.8	1668.9	1327.0	530.3	332.1
87.5°	97.9	79.3	99.1	148.7	270.1	412.6	3476.6	1874.6	1366.6	280.0	209.4
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: P193616

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL2-8030-600

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4	5419.4
2.5°	5421.9	5398.3	5379.8	5345.1	5306.7	5269.5	5236.0	5193.9	5181.5	5170.4	5187.7
5°	5439.2	5415.7	5347.5	5241.0	5123.3	5013.0	4902.7	4808.6	4750.3	4718.1	4736.7
7.5°	5465.2	5431.8	5290.5	5094.8	4882.9	4689.6	4490.1	4330.3	4212.6	4156.9	4173.0
10°	5488.8	5424.4	5193.9	4900.3	4590.5	4303.1	3988.4	3728.2	3534.9	3433.3	3458.1
12.5°	5498.7	5395.9	5058.9	4657.4	4232.4	3811.2	3347.8	2958.7	2681.2	2579.6	2558.5
15°	5508.6	5363.6	4910.2	4381.1	3800.0	3204.1	2554.8	2089.0	1858.5	1807.7	1796.6
17.5°	5511.1	5307.9	4741.7	4081.3	3293.3	2481.7	1747.0	1450.9	1452.1	1533.9	1543.8
20°	5485.1	5224.9	4537.2	3708.3	2686.2	1716.0	1199.4	1148.6	1335.6	1540.1	1564.9
22.5°	5425.6	5114.6	4305.5	3273.4	1991.1	1130.0	928.0	983.8	1225.4	1475.7	1504.2
25°	5350.0	4980.8	4031.7	2769.2	1318.3	807.8	778.1	846.2	1009.8	1177.1	1193.2
27.5°	5247.2	4822.2	3724.4	2191.8	856.2	665.3	685.2	731.0	797.9	872.3	879.7
30°	5114.6	4632.6	3396.1	1598.3	646.8	598.4	626.9	651.7	680.2	722.3	726.1
32.5°	4962.2	4450.5	3059.1	1104.0	573.7	563.7	586.0	598.4	620.7	646.8	649.2
35°	4834.6	4277.0	2709.7	780.6	542.7	537.7	552.6	557.6	578.6	607.1	609.6
37.5°	4761.5	4135.8	2349.2	629.4	521.6	514.2	522.9	522.9	552.6	594.7	600.9
40°	4766.4	4057.7	1988.6	568.7	504.3	494.4	495.6	495.6	534.0	579.9	583.6
42.5°	4901.5	4077.6	1668.9	545.2	490.6	479.5	473.3	477.0	509.2	539.0	541.4
45°	5218.7	4217.6	1369.1	530.3	477.0	473.3	459.7	458.4	470.8	484.5	484.5
47.5°	5739.1	4493.9	1165.9	520.4	465.9	464.6	448.5	432.4	431.2	436.1	436.1
50°	6585.3	4969.6	1029.6	509.2	458.4	448.5	429.9	405.2	396.5	400.2	400.2
52.5°	7854.0	5818.4	977.6	494.4	442.3	426.2	405.2	380.4	372.9	374.2	374.2
55°	9518.0	7121.8	970.1	477.0	425.0	399.0	381.6	363.0	354.4	356.8	356.8
57.5°	11551.2	8924.5	1102.7	449.8	401.4	371.7	361.8	349.4	343.2	346.9	345.7
60°	14023.0	11283.6	1635.5	421.3	377.9	346.9	346.9	337.0	332.1	335.8	334.5
62.5°	16870.3	13993.3	2299.6	400.2	353.1	327.1	332.1	327.1	322.1	324.6	323.4
65°	19395.4	15758.9	2153.4	384.1	328.3	308.5	317.2	314.7	311.0	313.5	312.2
67.5°	19468.5	15104.7	1209.3	366.7	304.8	289.9	302.3	301.1	298.6	301.1	299.8
70°	17374.5	12754.3	681.5	334.5	280.0	267.6	285.0	283.7	281.3	286.2	285.0
72.5°	13920.2	9255.4	498.1	294.9	255.2	244.1	263.9	262.7	262.7	270.1	266.4
75°	8010.2	4762.7	397.7	252.8	229.2	220.5	237.9	239.1	241.6	251.5	244.1
77.5°	2283.5	1484.3	324.6	214.3	197.0	193.3	210.6	213.1	214.3	225.5	215.6
80°	848.7	683.9	267.6	179.7	161.1	162.3	178.4	182.1	183.4	194.5	182.1
82.5°	541.4	451.0	216.8	138.8	126.4	125.1	145.0	149.9	149.9	151.2	143.7
85°	315.9	270.1	163.5	100.4	89.2	85.5	107.8	116.5	112.7	110.3	105.3
87.5°	211.9	185.9	100.4	55.8	48.3	45.8	63.2	69.4	66.9	63.2	59.5
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)