

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: P191163

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191163  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-05-LED-E1-SL3-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24590.7 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

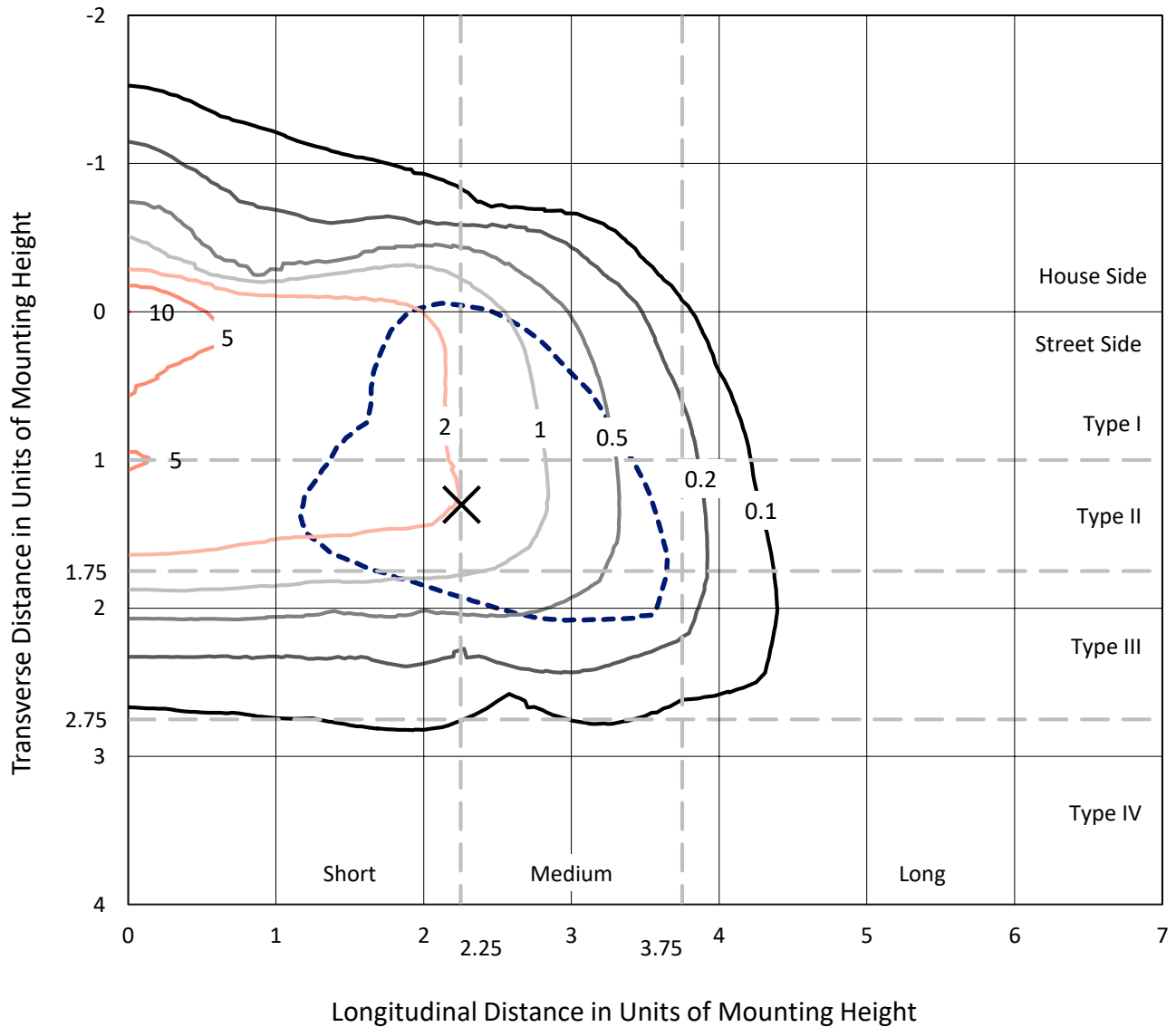
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

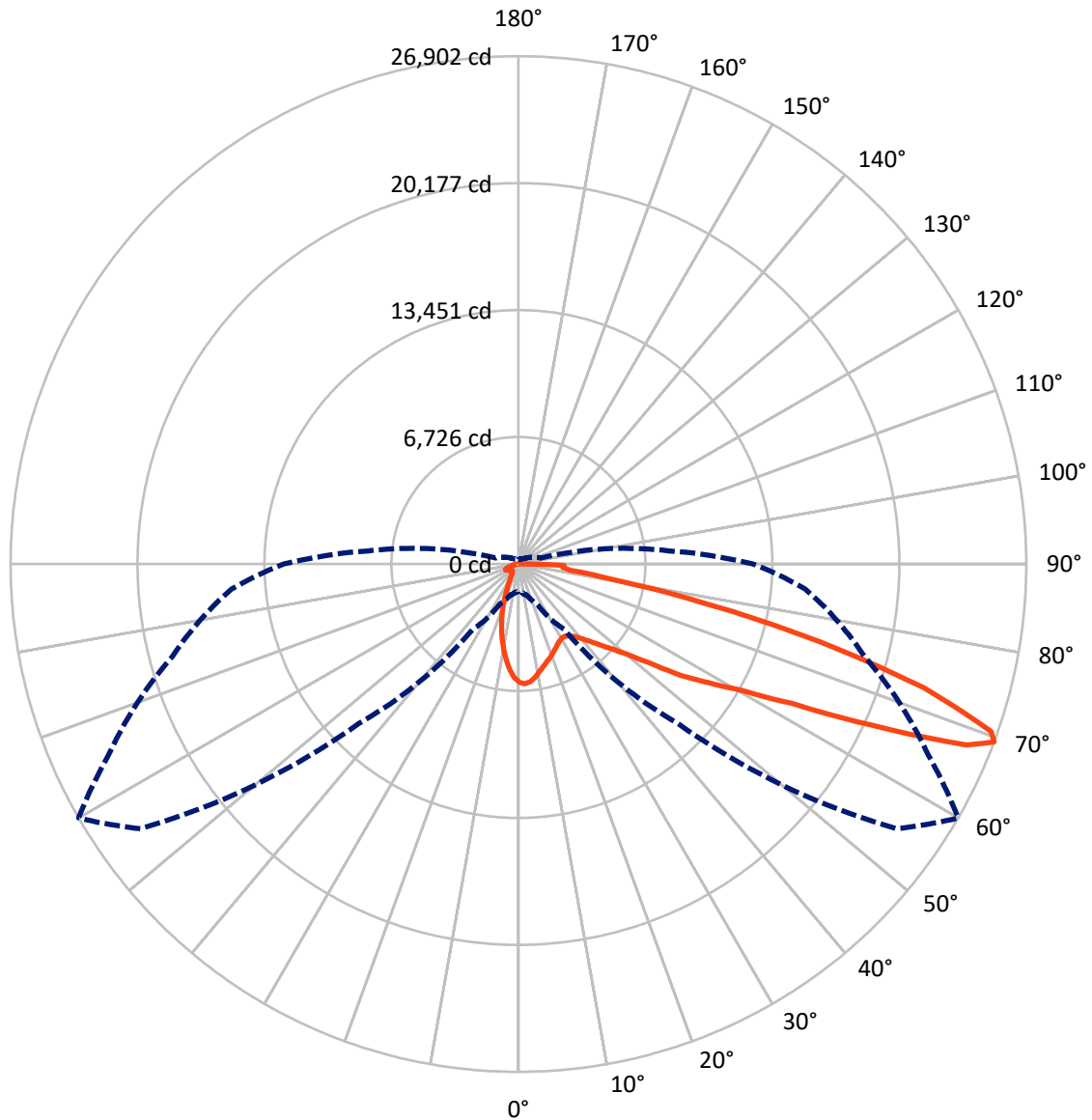
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3498.5	0.0	3498.5
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	21092.2	0.0	21092.2
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	24590.7	0.0	24590.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	529.8	2.2
10°-20°	1128.8	4.6
20°-30°	1438.3	5.8
30°-40°	1977.3	8.0
40°-50°	3208.4	13.0
50°-60°	5145.4	20.9
60°-70°	6848.2	27.8
70°-80°	3697.5	15.0
80°-90°	616.9	2.5
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°	24590.7	100.0
0°-180°	24590.7	100.0

**Coefficient of Utilization**



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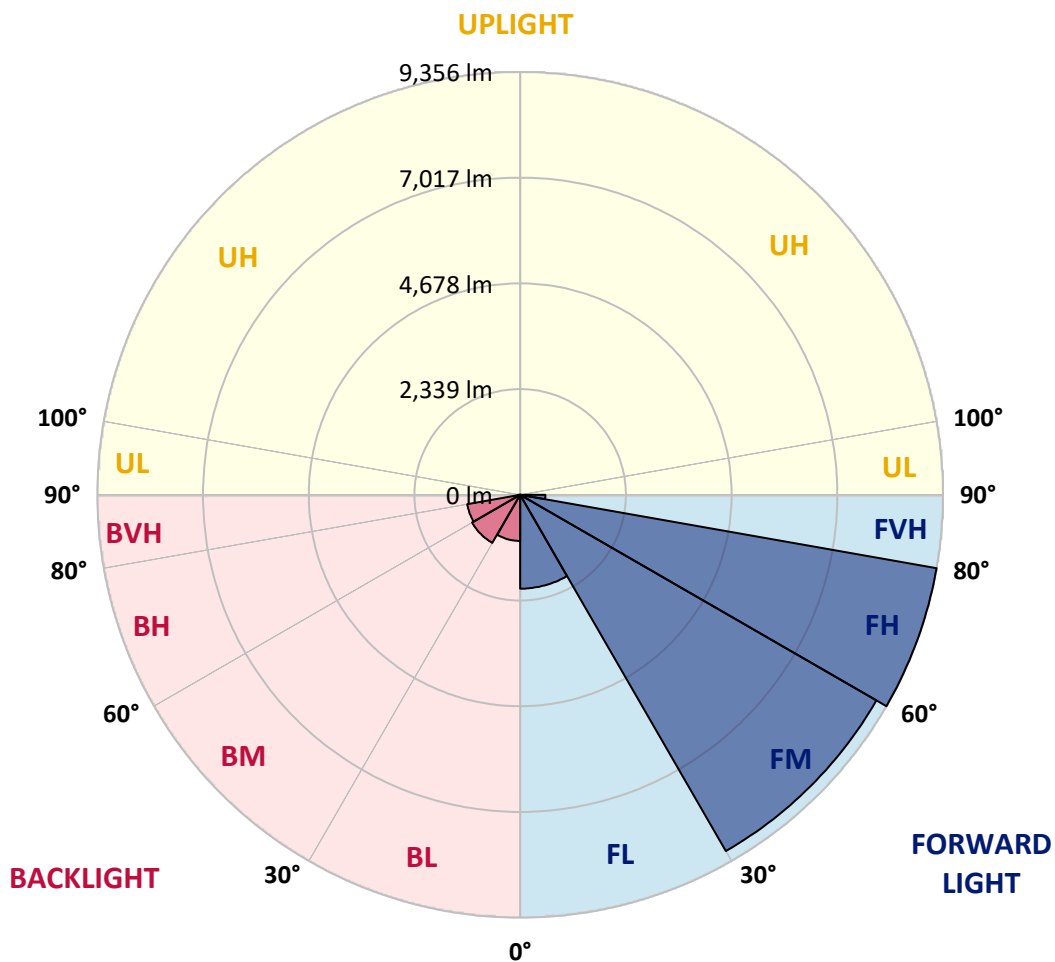
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2076.3	8.4			
FM	(30°-60°)	9102.1	37.0			
FH	(60°-80°)	9356.3	38.0			G4/12000
FVH	(80°-90°)	557.5	2.3			G4/750
BL	(0°-30°)	1020.6	4.2	B3/2500		
BM	(30°-60°)	1229.1	5.0	B2/2500		
BH	(60°-80°)	1189.4	4.8	B3/2500		G3/2500
BVH	(80°-90°)	59.4	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1
2.5°	6394.4	6408.7	6402.6	6399.2	6409.8	6393.2	6358.8	6348.0	6331.5	6292.2	6225.7
5°	6154.4	6197.2	6194.8	6226.9	6280.3	6294.6	6279.2	6281.5	6250.6	6201.9	6091.5
7.5°	5739.9	5757.7	5767.2	5837.3	5934.6	6013.1	6079.6	6101.0	6086.8	6045.1	5902.6
10°	5312.2	5326.5	5349.0	5431.1	5554.5	5662.6	5788.6	5861.0	5891.9	5884.7	5725.6
12.5°	4945.1	4959.4	4989.1	5081.8	5229.0	5362.1	5545.0	5635.3	5709.0	5752.9	5581.8
15°	4616.2	4647.0	4675.5	4782.4	4947.5	5122.1	5328.9	5442.9	5556.9	5655.5	5454.8
17.5°	4359.5	4390.4	4407.1	4504.5	4680.3	4894.1	5136.4	5270.7	5413.1	5574.8	5328.9
20°	4211.1	4225.3	4218.1	4272.9	4430.8	4657.7	4945.1	5100.7	5273.0	5498.7	5202.9
22.5°	4169.4	4170.7	4144.5	4138.6	4240.7	4432.0	4740.9	4929.7	5141.1	5448.8	5094.8
25°	4270.4	4266.8	4195.6	4137.4	4148.1	4259.8	4543.6	4763.4	5030.7	5438.1	5011.6
27.5°	4494.9	4505.7	4399.9	4290.7	4182.5	4179.0	4394.0	4625.6	4940.4	5486.8	4976.0
30°	4809.7	4827.5	4714.7	4575.8	4372.6	4205.1	4335.8	4543.6	4884.6	5587.8	4970.1
32.5°	5154.2	5173.3	5087.7	4941.6	4675.5	4366.7	4376.2	4550.8	4882.2	5729.1	5010.5
35°	5521.3	5542.7	5498.7	5375.2	5079.4	4664.9	4530.5	4666.0	4959.4	5945.4	5118.6
37.5°	5931.1	5964.3	5976.3	5858.6	5542.7	5058.0	4783.6	4884.6	5134.0	6245.9	5317.0
40°	6521.5	6567.9	6564.3	6395.6	6073.7	5589.0	5174.4	5200.6	5406.1	6647.4	5634.1
42.5°	7652.4	7661.9	7366.1	6999.0	6658.1	6147.3	5635.3	5614.0	5781.4	7155.8	6101.0
45°	9090.9	9051.7	8393.6	7684.4	7268.7	6788.7	6235.2	6130.6	6257.8	7775.9	6685.4
47.5°	10284.7	10194.4	9362.9	8384.1	7914.9	7486.1	6939.6	6756.7	6826.8	8479.1	7440.9
50°	10699.2	10631.5	9942.6	8966.2	8526.6	8336.5	7806.8	7547.8	7566.9	9317.8	8325.9
52.5°	10610.1	10600.6	10140.9	9349.9	9099.1	9229.9	9035.0	8684.6	8499.3	10249.0	9280.9
55°	10399.9	10420.1	10253.9	9796.5	9753.7	10092.2	10639.9	10380.9	9804.8	11188.7	10268.1
57.5°	9669.3	9721.6	10087.5	10358.3	10807.4	11311.1	11932.3	11858.7	11210.1	12204.3	11441.7
60°	7790.2	7911.3	8892.5	10249.0	11891.9	13467.0	13745.0	13573.9	12659.3	13464.7	12991.9
62.5°	5458.4	5584.3	6750.8	8873.5	11713.7	15902.2	16985.6	16247.8	14740.4	15321.3	14998.2
65°	2922.2	2982.8	3873.7	6156.8	9889.2	16404.7	21721.6	20599.1	18035.6	17610.4	16714.7
67.5°	1612.0	1645.2	1986.2	3108.6	6333.8	14445.9	24738.8	25587.1	22154.0	19134.4	16402.3
69°	1457.5	1488.4	1711.7	2354.4	4238.4	11944.2	24444.2	26902.0	23959.7	18983.6	15247.7
70°	1425.5	1453.9	1654.7	2170.3	3430.6	9845.2	23457.2	26565.8	24389.6	18443.1	14240.4
72.5°	1282.9	1313.8	1508.6	1949.3	2931.7	4908.3	18580.9	22461.6	22143.3	15991.3	10801.4
75°	1196.2	1224.7	1555.0	1908.9	2807.0	3106.3	12249.4	16554.3	16277.6	11186.3	5824.2
77.5°	512.0	509.6	721.1	1615.5	2848.5	3007.7	6582.1	10341.7	9435.4	4781.3	1672.5
80°	342.1	336.1	342.1	475.2	2612.2	3024.4	3448.5	5249.3	3965.2	1218.7	824.4
82.5°	294.6	289.8	300.5	289.8	918.2	3451.9	2931.7	2791.5	1885.2	692.5	408.7
85°	198.4	190.1	258.9	260.1	433.5	3067.1	3302.3	2357.9	1525.2	411.0	201.9
87.5°	95.0	92.7	150.9	184.1	254.2	1246.1	3705.0	2416.1	1538.3	210.2	96.3
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°	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1	6266.1
2.5°	6205.5	6156.8	6109.3	6052.3	5992.9	5926.4	5893.1	5859.9	5851.5	5842.0	5808.7
5°	6034.5	5965.5	5846.8	5716.1	5578.3	5444.0	5342.0	5277.8	5229.0	5204.2	5160.2
7.5°	5813.5	5712.6	5504.7	5278.9	5047.3	4835.9	4652.9	4537.7	4428.5	4377.3	4319.1
10°	5603.2	5452.4	5129.3	4796.7	4464.1	4144.5	3843.9	3631.4	3442.5	3336.8	3261.9
12.5°	5422.7	5216.0	4768.2	4318.0	3861.8	3406.8	2956.6	2602.7	2306.9	2151.3	2071.7
15°	5246.9	4997.4	4424.9	3853.5	3267.9	2648.9	2057.5	1656.0	1411.2	1313.8	1280.5
17.5°	5087.7	4768.2	4080.3	3385.5	2655.0	1906.6	1382.7	1161.8	1067.9	1035.8	1025.1
20°	4915.5	4536.5	3722.8	2896.1	2015.8	1332.8	1079.8	982.3	944.4	934.9	930.1
22.5°	4749.2	4308.5	3380.8	2372.2	1448.0	1028.7	927.7	887.3	881.4	889.8	889.8
25°	4607.8	4104.2	3011.3	1824.6	1063.2	865.9	830.3	820.8	843.4	874.3	880.2
27.5°	4502.1	3936.6	2618.1	1347.0	847.0	753.1	752.0	767.4	823.2	882.6	894.5
30°	4429.6	3777.5	2197.6	971.7	710.3	662.9	681.8	715.1	797.1	881.4	904.0
32.5°	4392.8	3659.9	1759.3	752.0	608.2	582.1	614.2	654.5	735.3	813.7	843.4
35°	4421.3	3573.2	1345.9	627.2	536.9	516.7	550.0	589.2	636.7	669.9	692.5
37.5°	4528.2	3538.7	1015.7	561.9	488.3	469.2	495.3	517.9	536.9	546.5	557.1
40°	4758.7	3575.5	813.7	528.6	460.9	437.1	447.8	456.1	468.0	477.5	482.3
42.5°	5098.4	3686.0	729.4	515.6	446.6	412.1	409.8	413.4	428.8	446.6	450.2
45°	5573.5	3880.8	723.4	523.9	439.6	392.0	381.4	386.1	409.8	437.1	441.9
47.5°	6180.6	4177.8	770.9	548.8	445.5	381.4	363.5	369.4	399.2	436.0	441.9
50°	6915.9	4592.3	850.5	585.6	471.6	383.7	357.5	361.1	392.0	432.4	438.3
52.5°	7784.2	5180.3	937.2	621.2	498.9	399.2	362.3	353.9	382.5	418.2	425.2
55°	8749.9	5934.6	1026.3	653.4	513.2	418.2	371.8	344.5	364.7	394.3	400.3
57.5°	9935.4	6989.5	1180.8	684.3	522.6	431.2	381.4	335.0	342.1	363.5	368.3
60°	11540.3	8481.5	1452.8	735.3	544.0	436.0	380.1	326.6	319.6	331.4	333.8
62.5°	13463.5	10101.7	1679.7	799.4	579.7	439.6	373.0	320.7	300.5	300.5	302.9
65°	14605.1	10535.4	1553.8	852.9	609.4	436.0	364.7	314.8	286.3	273.2	274.4
67.5°	13637.0	9265.5	1331.6	863.6	608.2	419.3	351.6	304.1	272.0	251.9	250.6
69°	12424.0	7994.5	1231.8	835.0	579.7	397.9	335.0	292.3	261.4	240.0	238.8
70°	11446.4	7218.8	1166.5	804.2	548.8	382.5	321.9	281.5	253.0	232.8	230.5
72.5°	8322.3	4730.1	996.7	691.3	452.6	320.7	277.9	247.0	225.7	213.8	211.4
75°	4158.8	2255.8	808.9	560.7	346.9	256.6	228.1	206.7	196.0	193.6	192.4
77.5°	1366.0	1033.5	578.5	418.2	257.8	200.7	184.1	168.7	166.3	173.4	171.0
80°	750.7	601.1	367.0	276.8	175.8	147.3	145.0	136.6	140.1	152.0	149.7
82.5°	382.5	312.4	226.9	166.3	118.8	105.7	115.2	110.5	115.2	125.9	124.7
85°	188.8	171.0	143.7	101.0	78.4	67.7	81.9	85.5	87.9	96.3	96.3
87.5°	109.3	101.0	76.0	47.5	39.2	35.6	47.5	46.3	54.6	59.4	58.2
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)