

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: P269474

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269474  
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-07-LED-E1-SL3-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA 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: 24102.2 lumens  
Efficiency: N/A  
Efficacy: 106.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B3 - U0 - G4

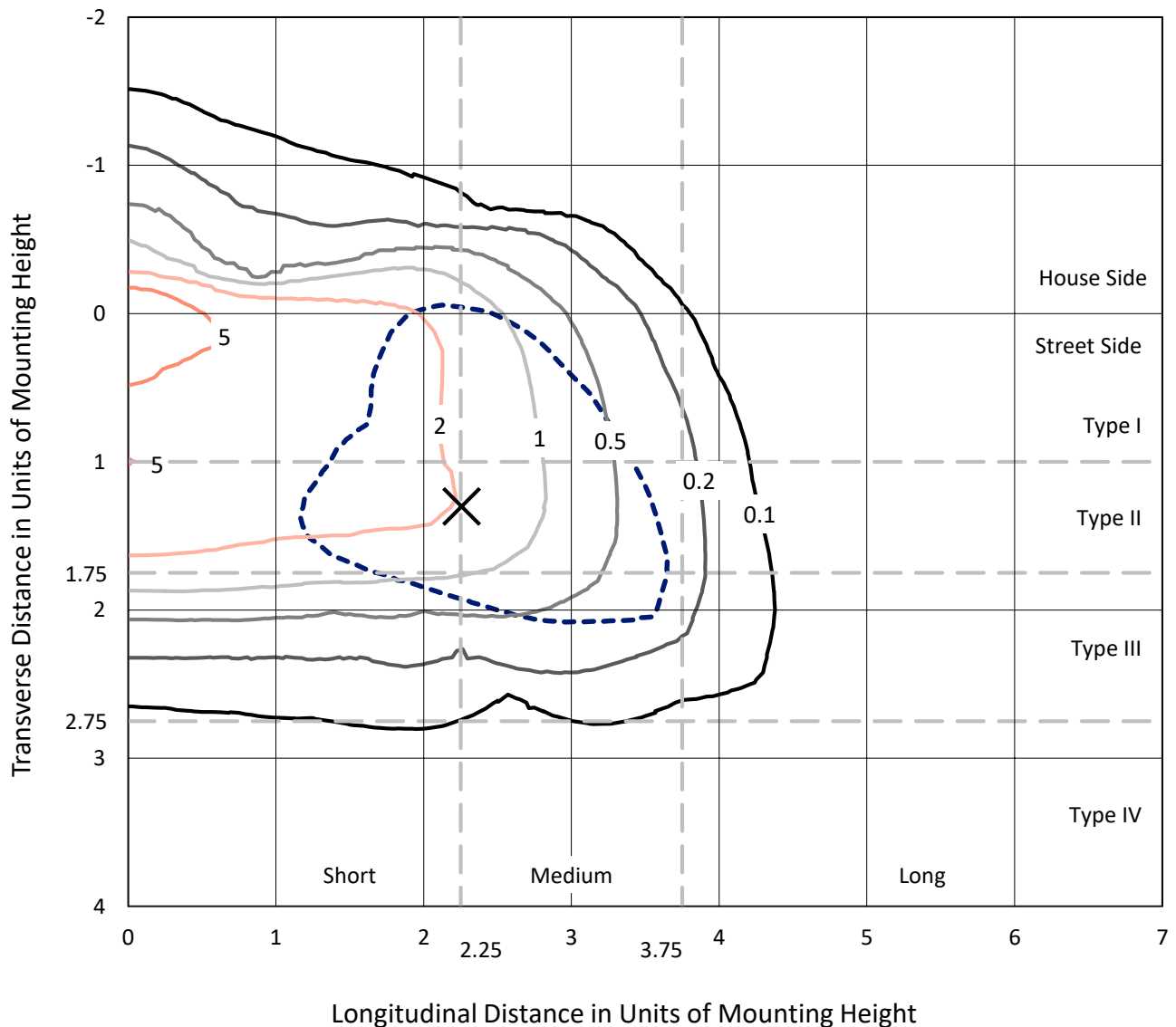
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

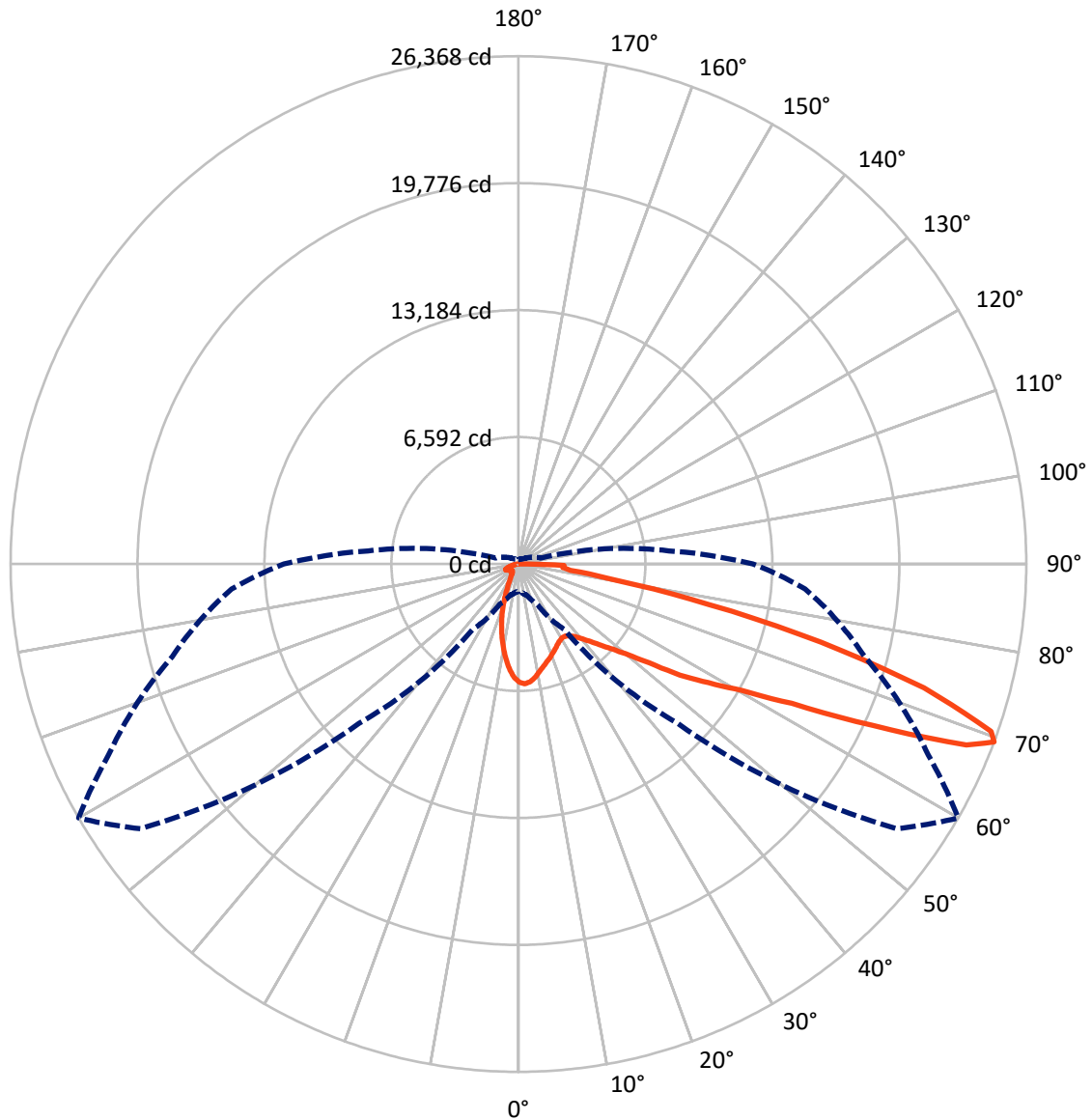
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	3429.0	0.0	3429.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	20673.3	0.0	20673.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	24102.2	0.0	24102.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.3	2.2
10°-20°	1106.4	4.6
20°-30°	1409.7	5.8
30°-40°	1938.0	8.0
40°-50°	3144.6	13.0
50°-60°	5043.2	20.9
60°-70°	6712.2	27.8
70°-80°	3624.0	15.0
80°-90°	604.7	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°	24102.2	100.0
0°-180°	24102.2	100.0

**Coefficient of Utilization**



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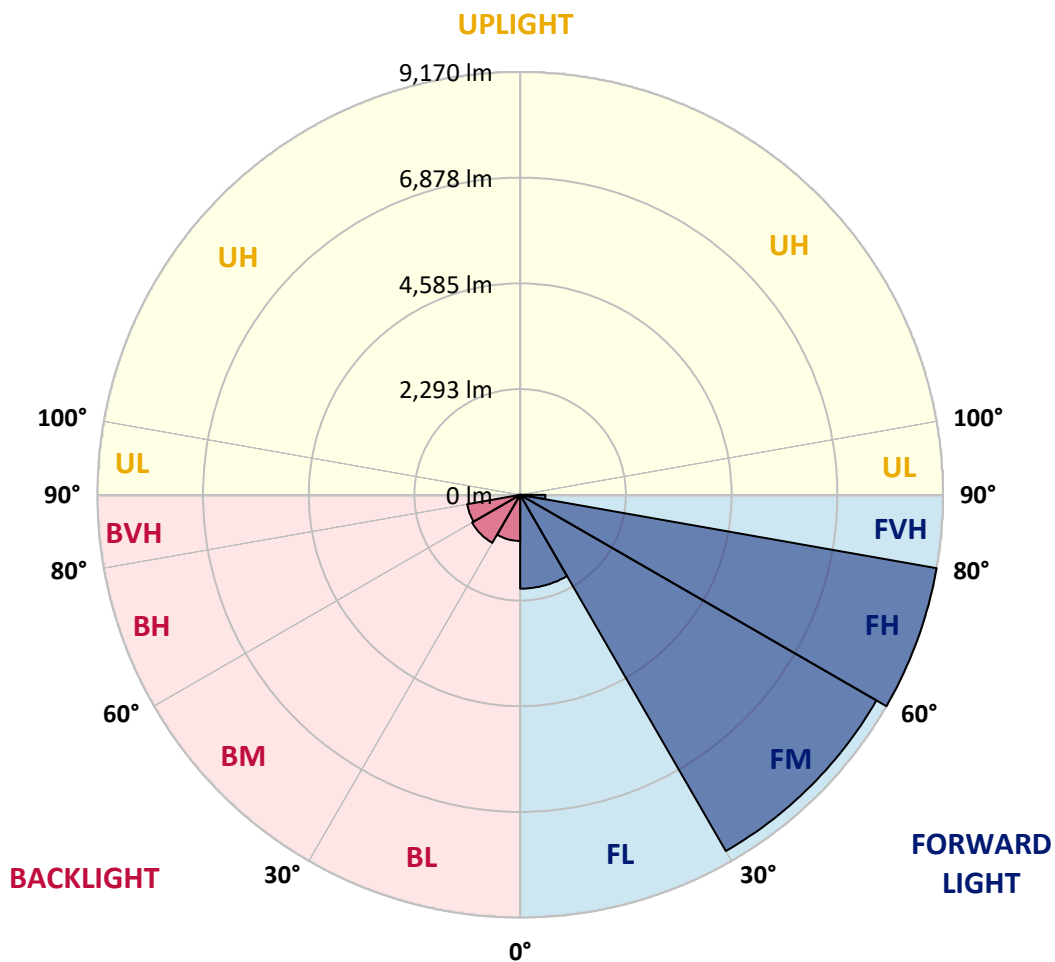
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2035.1	8.4			
FM	(30°-60°)	8921.2	37.0			
FH	(60°-80°)	9170.4	38.0			G4/12000
FVH	(80°-90°)	546.5	2.3			G4/750
BL	(0°-30°)	1000.3	4.2	B3/2500		
BM	(30°-60°)	1204.7	5.0	B2/2500		
BH	(60°-80°)	1165.8	4.8	B3/2500		G3/2500
BVH	(80°-90°)	58.2	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°	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6
2.5°	6267.4	6281.3	6275.5	6272.1	6282.4	6266.1	6232.4	6221.9	6205.6	6167.3	6102.0
5°	6032.2	6074.1	6071.7	6103.3	6155.5	6169.6	6154.4	6156.8	6126.5	6078.7	5970.5
7.5°	5625.8	5643.3	5652.7	5721.3	5816.7	5893.6	5958.8	5979.7	5965.9	5925.1	5785.4
10°	5206.7	5220.7	5242.8	5323.1	5444.2	5550.2	5673.5	5744.7	5774.8	5767.8	5611.9
12.5°	4847.0	4860.9	4890.1	4980.8	5125.2	5255.7	5434.8	5523.4	5595.5	5638.7	5470.9
15°	4524.5	4554.6	4582.7	4687.4	4849.3	5020.4	5222.9	5334.8	5446.6	5543.3	5346.4
17.5°	4273.0	4303.2	4319.5	4415.0	4587.3	4796.9	5034.5	5166.0	5305.7	5464.0	5222.9
20°	4127.4	4141.4	4134.4	4188.0	4342.8	4565.1	4847.0	4999.4	5168.3	5389.6	5099.6
22.5°	4086.7	4087.7	4062.1	4056.3	4156.5	4343.9	4646.7	4831.9	5039.0	5340.7	4993.6
25°	4185.7	4182.1	4112.4	4055.2	4065.6	4175.1	4453.3	4668.9	4930.7	5330.2	4912.1
27.5°	4405.6	4416.2	4312.6	4205.4	4099.4	4095.9	4306.7	4533.7	4842.3	5377.9	4877.2
30°	4714.1	4731.6	4621.1	4484.9	4285.8	4121.6	4249.6	4453.3	4787.5	5476.7	4871.4
32.5°	5051.9	5070.5	4986.6	4843.4	4582.7	4280.0	4289.2	4460.4	4785.2	5615.3	4910.9
35°	5411.6	5432.6	5389.6	5268.4	4978.4	4572.2	4440.6	4573.4	4860.9	5827.2	5016.9
37.5°	5813.3	5845.9	5857.6	5742.2	5432.6	4957.6	4688.6	4787.5	5032.0	6121.8	5211.3
40°	6391.9	6437.3	6433.8	6268.6	5953.0	5478.0	5071.7	5097.3	5298.7	6515.3	5522.2
42.5°	7500.4	7509.7	7219.8	6859.9	6525.8	6025.2	5523.4	5502.4	5666.6	7013.6	5979.7
45°	8910.3	8871.9	8226.9	7531.7	7124.3	6653.8	6111.3	6008.9	6133.4	7621.4	6552.5
47.5°	10080.4	9991.8	9176.9	8217.5	7757.7	7337.4	6801.7	6622.5	6691.1	8310.7	7293.1
50°	10486.8	10420.3	9745.2	8788.1	8357.2	8171.0	7651.8	7397.9	7416.4	9132.7	8160.6
52.5°	10399.4	10390.1	9939.6	9164.1	8918.5	9046.6	8855.6	8512.1	8330.5	10045.4	9096.5
55°	10193.3	10213.1	10050.1	9601.9	9559.9	9891.7	10428.6	10174.7	9610.1	10966.4	10064.2
57.5°	9477.3	9528.5	9887.1	10152.6	10592.8	11086.3	11695.3	11623.1	10987.3	11961.9	11214.4
60°	7635.5	7754.2	8715.9	10045.4	11655.7	13199.5	13472.1	13304.3	12407.7	13197.2	12733.8
62.5°	5349.9	5473.4	6616.6	8697.2	11481.1	15586.3	16648.2	15925.2	14447.6	15017.0	14700.4
65°	2864.2	2923.5	3796.7	6034.5	9692.7	16078.9	21290.2	20189.9	17677.3	17260.6	16382.7
67.5°	1579.8	1612.5	1946.6	3047.0	6207.9	14158.9	24247.5	25078.7	21714.0	18754.4	16076.4
69°	1428.6	1458.8	1677.8	2307.7	4154.2	11706.9	23958.8	26367.6	23483.8	18606.5	14944.8
70°	1397.1	1425.2	1621.9	2127.1	3362.4	9649.7	22991.2	26038.1	23905.2	18076.8	13957.4
72.5°	1257.4	1287.7	1478.6	1910.5	2873.5	4810.9	18211.8	22015.5	21703.5	15673.6	10586.9
75°	1172.5	1200.3	1524.1	1871.0	2751.1	3044.6	12006.1	16225.5	15954.3	10964.2	5708.5
77.5°	501.9	499.5	706.7	1583.4	2791.9	2948.0	6451.3	10136.3	9248.0	4686.3	1639.2
80°	335.2	329.5	335.2	465.7	2560.3	2964.2	3380.0	5145.0	3886.3	1194.6	808.0
82.5°	288.7	284.0	294.6	284.0	900.0	3383.5	2873.5	2736.1	1847.8	678.8	400.6
85°	194.5	186.3	253.9	254.9	425.0	3006.2	3236.8	2311.1	1495.0	402.8	197.9
87.5°	93.2	90.8	148.0	180.5	249.2	1221.3	3631.4	2368.1	1507.7	206.2	94.3
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°	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6	6141.6
2.5°	6082.2	6034.5	5987.9	5932.0	5873.8	5808.6	5776.0	5743.5	5735.3	5725.9	5693.4
5°	5914.6	5847.1	5730.6	5602.5	5467.5	5335.9	5235.9	5172.9	5125.2	5100.8	5057.6
7.5°	5697.9	5599.0	5395.3	5174.1	4947.1	4739.7	4560.5	4447.6	4340.5	4290.5	4233.4
10°	5492.0	5344.0	5027.5	4701.4	4375.4	4062.1	3767.6	3559.3	3374.2	3270.5	3197.2
12.5°	5315.0	5112.3	4673.4	4232.2	3785.1	3339.2	2897.9	2550.9	2261.0	2108.5	2030.4
15°	5142.6	4898.2	4336.9	3777.0	3202.9	2596.3	2016.5	1623.0	1383.2	1287.7	1255.1
17.5°	4986.6	4673.4	3999.3	3318.2	2602.2	1868.7	1355.3	1138.7	1046.6	1015.3	1004.8
20°	4817.8	4446.4	3648.8	2838.6	1975.8	1306.3	1058.4	962.9	925.7	916.4	911.6
22.5°	4654.7	4222.8	3313.6	2325.2	1419.2	1008.3	909.4	869.6	863.9	872.1	872.1
25°	4516.3	4022.6	2951.6	1788.3	1042.0	848.8	813.9	804.5	826.6	857.0	862.7
27.5°	4412.7	3858.4	2566.1	1320.2	830.2	738.1	737.0	752.2	806.9	865.1	876.7
30°	4341.6	3702.5	2154.0	952.5	696.2	649.7	668.2	700.9	781.3	863.9	886.0
32.5°	4305.5	3587.2	1724.2	737.0	596.1	570.6	602.0	641.5	720.7	797.5	826.6
35°	4333.5	3502.2	1319.2	614.7	526.2	506.5	539.1	577.5	624.1	656.7	678.8
37.5°	4438.3	3468.4	995.4	550.8	478.5	459.9	485.5	507.6	526.2	535.6	546.1
40°	4664.1	3504.5	797.5	518.1	451.8	428.4	438.9	447.0	458.8	468.0	472.7
42.5°	4997.1	3612.9	715.0	505.2	437.7	404.0	401.7	405.1	420.2	437.7	441.2
45°	5462.9	3803.8	709.0	513.4	430.7	384.2	373.8	378.4	401.7	428.4	433.2
47.5°	6057.8	4094.8	755.7	537.8	436.5	373.8	356.3	362.0	391.2	427.4	433.2
50°	6778.5	4501.1	833.6	573.9	462.2	376.1	350.5	353.9	384.2	423.8	429.6
52.5°	7629.6	5077.5	918.6	609.0	488.9	391.2	355.1	346.9	375.0	409.8	416.9
55°	8576.2	5816.7	1005.9	640.3	503.1	409.8	364.4	337.7	357.4	386.5	392.4
57.5°	9738.0	6850.7	1157.2	670.7	512.4	422.7	373.8	328.3	335.2	356.3	360.8
60°	11311.1	8313.0	1424.0	720.7	533.2	427.4	372.5	320.2	313.1	324.8	327.2
62.5°	13196.0	9901.1	1646.4	783.5	568.2	430.7	365.6	314.3	294.6	294.6	296.9
65°	14314.9	10326.0	1522.8	836.0	597.3	427.4	357.4	308.6	280.6	267.8	269.0
67.5°	13366.1	9081.4	1305.1	846.5	596.1	411.0	344.6	298.1	266.6	246.9	245.6
69°	12177.2	7835.6	1207.3	818.4	568.2	390.0	328.3	286.4	256.1	235.1	234.0
70°	11219.1	7075.4	1143.4	788.3	537.8	375.0	315.6	275.9	248.0	228.2	225.8
72.5°	8157.0	4636.2	976.8	677.6	443.7	314.3	272.5	242.2	221.3	209.6	207.2
75°	4076.1	2211.0	792.8	549.6	340.0	251.4	223.6	202.6	192.1	189.8	188.6
77.5°	1339.0	1012.8	567.0	409.8	252.7	196.8	180.5	165.3	163.0	170.0	167.7
80°	735.8	589.1	359.9	271.3	172.4	144.4	142.0	133.8	137.4	148.9	146.8
82.5°	375.0	306.2	222.4	163.0	116.4	103.7	112.9	108.2	112.9	123.3	122.3
85°	185.1	167.7	140.9	99.0	76.8	66.4	80.4	83.8	86.1	94.3	94.3
87.5°	107.1	99.0	74.5	46.6	38.4	34.9	46.6	45.5	53.5	58.2	57.0
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)