

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: P193696

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193696  
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-08-LED-E1-SL3-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3000K, 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: 25649 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

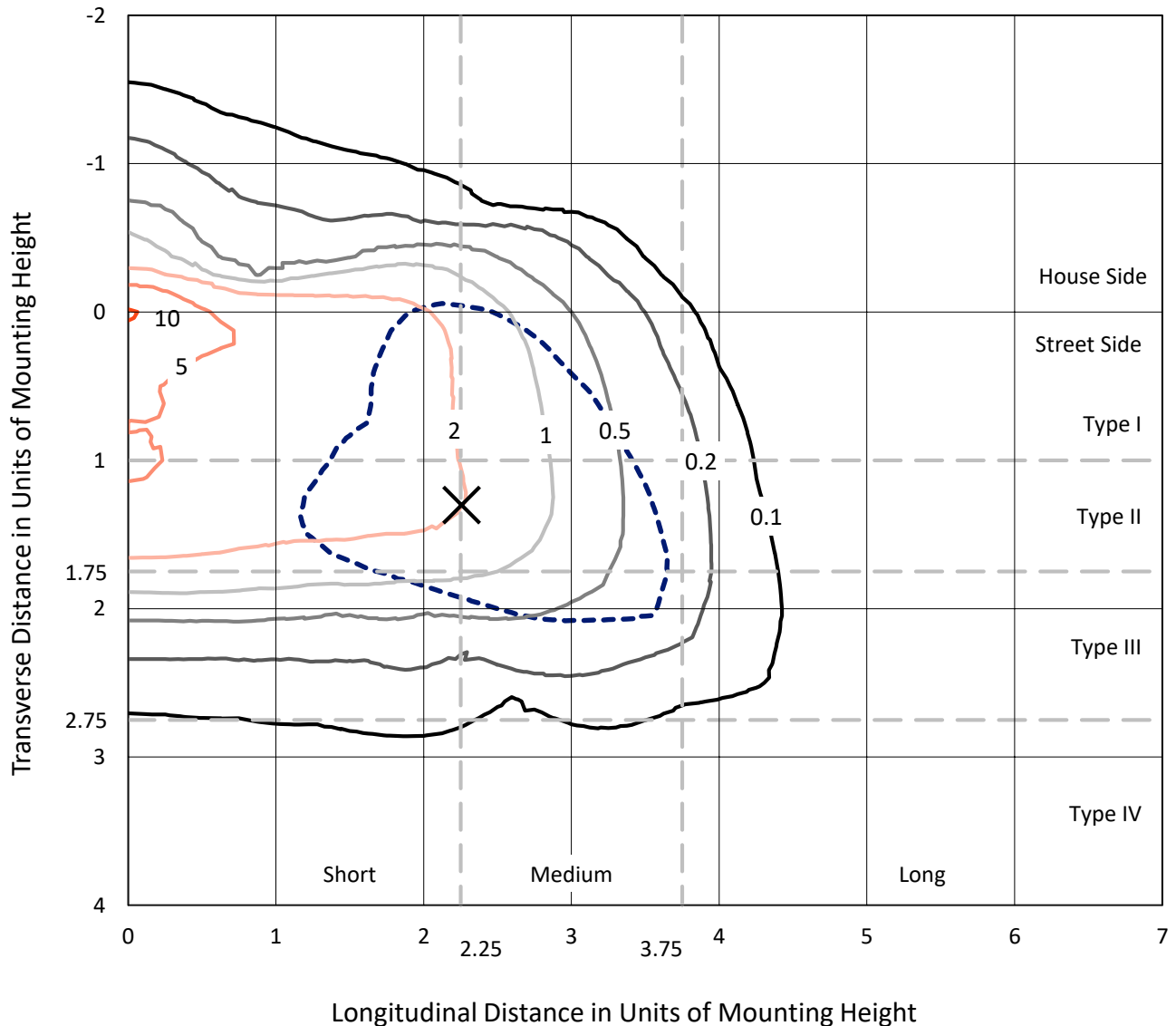
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

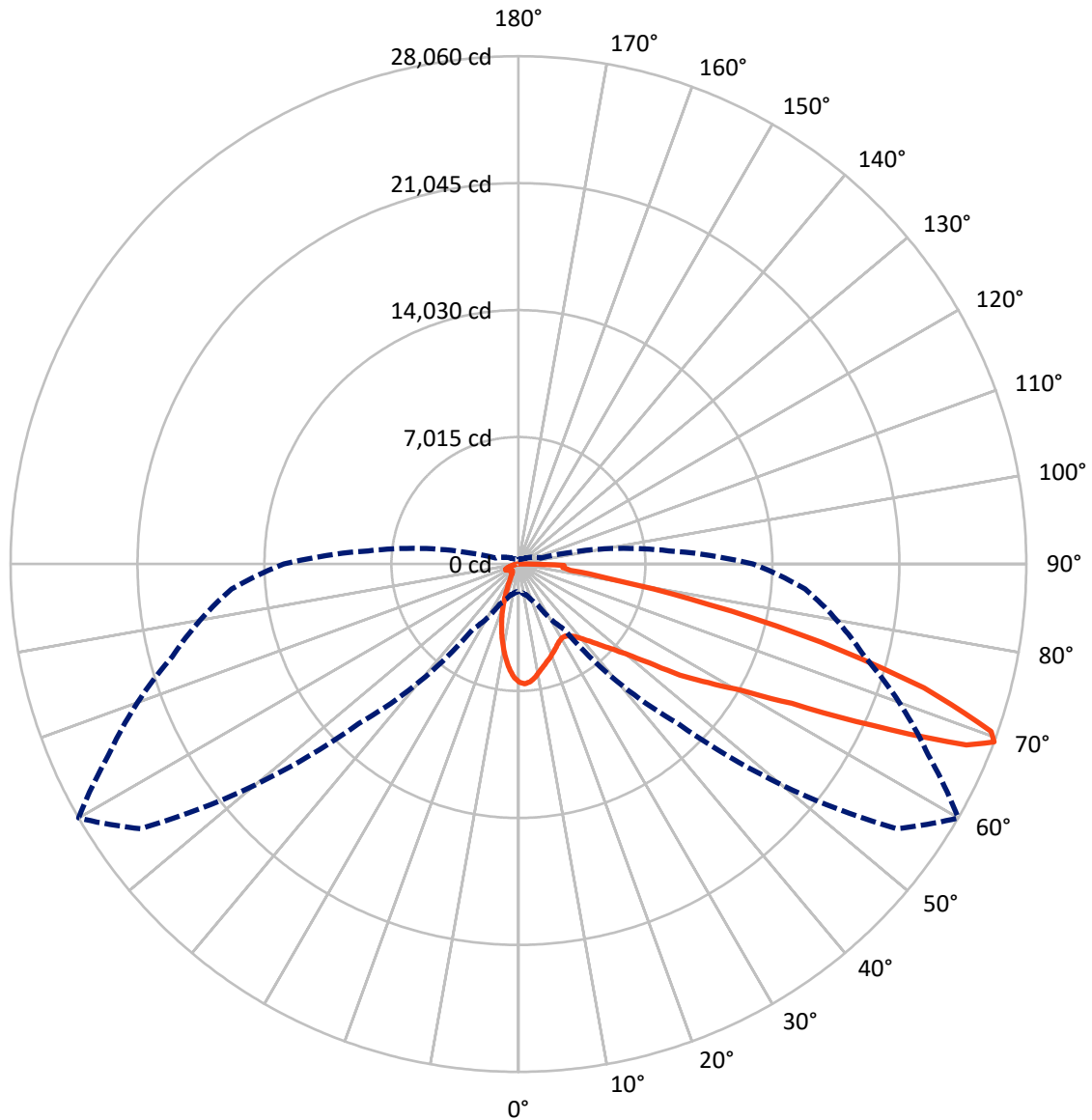
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	3649.0	0.0	3649.0
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	22000.0	0.0	22000.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	25649.0	0.0	25649.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	552.6	2.2
10°-20°	1177.4	4.6
20°-30°	1500.2	5.8
30°-40°	2062.4	8.0
40°-50°	3346.5	13.0
50°-60°	5366.9	20.9
60°-70°	7142.9	27.8
70°-80°	3856.6	15.0
80°-90°	643.5	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°	25649.0	100.0
0°-180°	25649.0	100.0

**Coefficient of Utilization**



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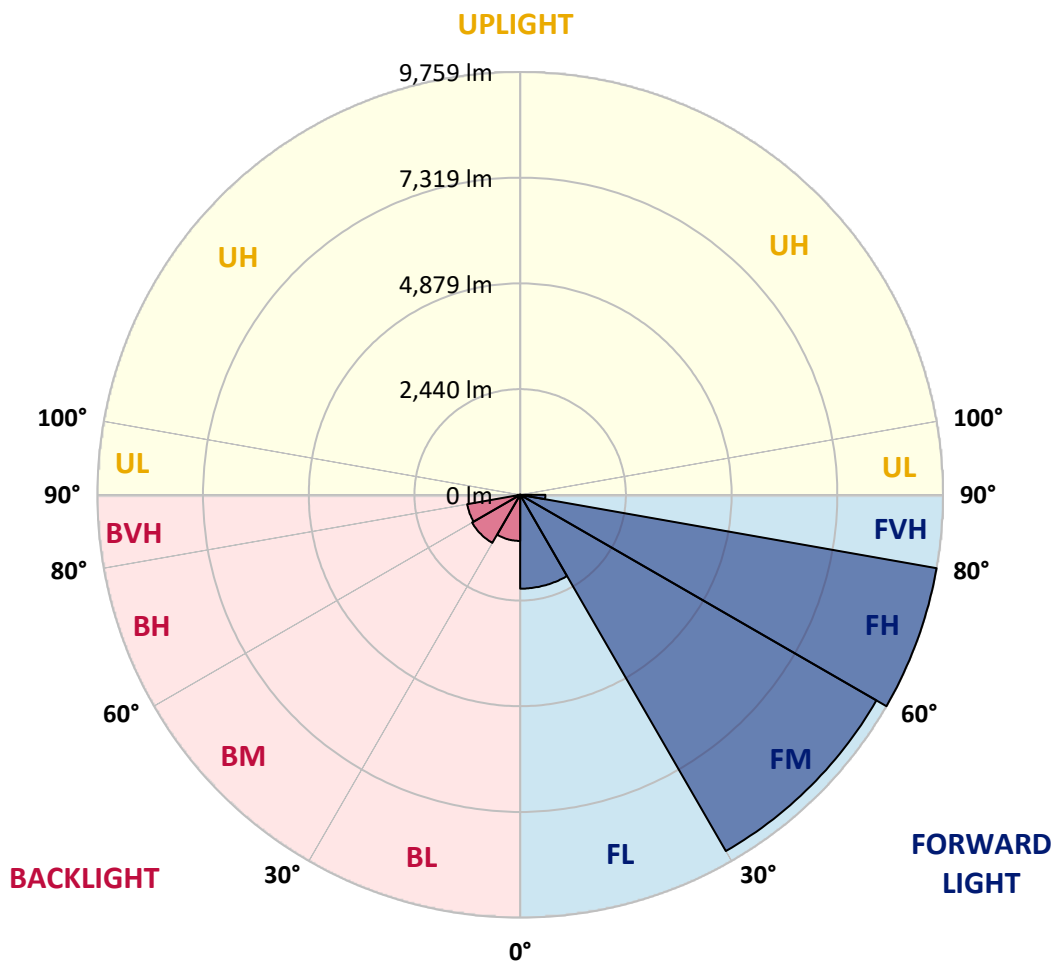
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2165.7	8.4			
FM (30°-60°)	9493.8	37.0			
FH (60°-80°)	9759.0	38.0			G4/12000
FVH (80°-90°)	581.5	2.3			G4/750
BL (0°-30°)	1064.5	4.2	B3/2500		
BM (30°-60°)	1282.0	5.0	B2/2500		
BH (60°-80°)	1240.6	4.8	B3/2500		G3/2500
BVH (80°-90°)	62.0	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°	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8
2.5°	6669.6	6684.4	6678.2	6674.5	6685.7	6668.3	6632.4	6621.2	6603.9	6563.0	6493.6
5°	6419.3	6463.9	6461.4	6494.9	6550.6	6565.5	6549.4	6551.9	6519.6	6468.8	6353.6
7.5°	5986.9	6005.5	6015.4	6088.5	6190.1	6271.8	6341.2	6363.5	6348.7	6305.3	6156.6
10°	5540.8	5555.7	5579.2	5664.7	5793.6	5906.3	6037.7	6113.3	6145.5	6138.0	5972.0
12.5°	5158.0	5172.8	5203.8	5300.5	5454.1	5592.9	5783.7	5877.8	5954.7	6000.5	5822.1
15°	4814.8	4847.0	4876.7	4988.2	5160.5	5342.6	5558.2	5677.1	5796.1	5898.9	5689.5
17.5°	4547.2	4579.4	4596.7	4698.3	4881.7	5104.7	5357.5	5497.5	5646.1	5814.7	5558.2
20°	4392.3	4407.1	4399.7	4456.7	4621.5	4858.1	5158.0	5320.3	5499.9	5735.4	5426.8
22.5°	4348.9	4350.1	4322.9	4316.7	4423.3	4622.7	4944.9	5141.9	5362.4	5683.3	5314.1
25°	4454.2	4450.5	4376.2	4315.5	4326.6	4443.1	4739.2	4968.4	5247.2	5672.2	5227.4
27.5°	4688.4	4699.5	4589.3	4475.3	4362.5	4358.8	4583.1	4824.7	5153.0	5723.0	5190.2
30°	5016.7	5035.3	4917.6	4772.6	4560.8	4386.1	4522.4	4739.2	5094.8	5828.3	5184.0
32.5°	5376.0	5395.9	5306.7	5154.3	4876.7	4554.6	4564.5	4746.6	5092.3	5975.7	5226.1
35°	5758.9	5781.2	5735.4	5606.5	5298.0	4865.6	4725.6	4866.8	5172.8	6201.2	5338.9
37.5°	6186.4	6221.0	6233.4	6110.8	5781.2	5275.7	4989.5	5094.8	5355.0	6514.7	5545.8
40°	6802.1	6850.5	6846.7	6670.8	6335.0	5829.5	5397.1	5424.4	5638.7	6933.5	5876.6
42.5°	7981.7	7991.6	7683.1	7300.2	6944.6	6411.9	5877.8	5855.5	6030.2	7463.8	6363.5
45°	9482.1	9441.2	8754.8	8015.1	7581.5	7080.9	6503.5	6394.5	6527.1	8110.5	6973.1
47.5°	10727.3	10633.1	9765.8	8744.9	8255.5	7808.2	7238.3	7047.5	7120.6	8844.0	7761.1
50°	11159.7	11089.1	10370.5	9352.0	8893.6	8695.3	8142.7	7872.6	7892.5	9718.8	8684.2
52.5°	11066.8	11056.9	10577.4	9752.2	9490.8	9627.1	9423.9	9058.4	8865.1	10690.1	9680.4
55°	10847.5	10868.6	10695.1	10218.1	10173.5	10526.6	11097.8	10827.7	10226.8	11670.2	10710.0
57.5°	10085.5	10140.0	10521.6	10804.1	11272.5	11797.8	12445.8	12369.0	11692.5	12729.5	11934.1
60°	8125.4	8251.8	9275.2	10690.1	12403.7	14046.6	14336.5	14158.1	13204.1	14044.1	13551.0
62.5°	5693.2	5824.6	7041.3	9255.4	12217.8	16586.6	17716.5	16947.1	15374.8	15980.7	15643.7
65°	3048.0	3111.1	4040.4	6421.8	10314.7	17110.7	22656.5	21485.6	18811.8	18368.3	17434.0
67.5°	1681.3	1716.0	2071.6	3242.5	6606.4	15067.5	25803.5	26688.2	23107.5	19957.9	17108.2
69°	1520.3	1552.5	1785.4	2455.7	4420.8	12458.2	25496.3	28059.8	24990.7	19800.5	15903.9
70°	1486.8	1516.5	1725.9	2263.7	3578.2	10268.9	24466.6	27709.1	25439.3	19236.8	14853.2
72.5°	1338.1	1370.3	1573.5	2033.2	3057.9	5119.6	19380.5	23428.4	23096.3	16679.5	11266.3
75°	1247.7	1277.4	1621.9	1991.1	2927.8	3240.0	12776.6	17266.8	16978.1	11667.7	6074.8
77.5°	534.0	531.5	752.1	1685.0	2971.1	3137.2	6865.3	10786.8	9841.4	4987.0	1744.5
80°	356.8	350.6	356.8	495.6	2724.6	3154.5	3596.8	5475.2	4135.8	1271.2	859.9
82.5°	307.3	302.3	313.5	302.3	957.8	3600.6	3057.9	2911.7	1966.3	722.3	426.2
85°	206.9	198.2	270.1	271.3	452.2	3199.1	3444.4	2459.4	1590.9	428.7	210.6
87.5°	99.1	96.6	157.4	192.0	265.1	1299.7	3864.5	2520.1	1604.5	219.3	100.4
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°	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8	6535.8
2.5°	6472.6	6421.8	6372.2	6312.7	6250.8	6181.4	6146.7	6112.0	6103.3	6093.4	6058.7
5°	6294.1	6222.3	6098.4	5962.1	5818.4	5678.4	5571.8	5504.9	5454.1	5428.1	5382.2
7.5°	6063.7	5958.4	5741.6	5506.1	5264.5	5044.0	4853.2	4733.0	4619.0	4565.7	4505.0
10°	5844.4	5687.0	5350.0	5003.1	4656.2	4322.9	4009.4	3787.6	3590.6	3480.4	3402.3
12.5°	5656.1	5440.5	4973.4	4503.8	4028.0	3553.5	3083.9	2714.7	2406.1	2243.8	2160.8
15°	5472.7	5212.5	4615.3	4019.3	3408.5	2763.0	2146.0	1727.2	1471.9	1370.3	1335.6
17.5°	5306.7	4973.4	4256.0	3531.2	2769.2	1988.6	1442.2	1211.7	1113.9	1080.4	1069.3
20°	5127.0	4731.8	3883.0	3020.7	2102.6	1390.2	1126.3	1024.7	985.0	975.1	970.1
22.5°	4953.5	4493.9	3526.2	2474.3	1510.3	1073.0	967.7	925.5	919.3	928.0	928.0
25°	4806.1	4280.8	3140.9	1903.1	1108.9	903.2	866.1	856.2	879.7	911.9	918.1
27.5°	4695.8	4106.1	2730.8	1405.0	883.4	785.5	784.3	800.4	858.6	920.6	933.0
30°	4620.3	3940.0	2292.2	1013.5	740.9	691.4	711.2	745.9	831.4	919.3	942.9
32.5°	4581.8	3817.4	1835.0	784.3	634.4	607.1	640.6	682.7	766.9	848.7	879.7
35°	4611.6	3726.9	1403.8	654.2	560.0	539.0	573.7	614.5	664.1	698.8	722.3
37.5°	4723.1	3691.0	1059.3	586.0	509.2	489.4	516.7	540.2	560.0	569.9	581.1
40°	4963.5	3729.4	848.7	551.4	480.7	456.0	467.1	475.8	488.2	498.1	503.0
42.5°	5317.8	3844.6	760.7	537.7	465.9	429.9	427.5	431.2	447.3	465.9	469.6
45°	5813.4	4047.8	754.6	546.4	458.4	408.9	397.7	402.7	427.5	456.0	460.9
47.5°	6446.5	4357.6	804.1	572.4	464.6	397.7	379.1	385.3	416.3	454.7	460.9
50°	7213.5	4790.0	887.1	610.8	491.9	400.2	372.9	376.7	408.9	451.0	457.2
52.5°	8119.2	5403.3	977.6	648.0	520.4	416.3	377.9	369.2	399.0	436.1	443.6
55°	9126.5	6190.1	1070.5	681.5	535.3	436.1	387.8	359.3	380.4	411.3	417.5
57.5°	10363.0	7290.3	1231.6	713.7	545.2	449.8	397.7	349.4	356.8	379.1	384.1
60°	12036.9	8846.5	1515.3	766.9	567.5	454.7	396.5	340.7	333.3	345.7	348.2
62.5°	14042.9	10536.5	1752.0	833.9	604.6	458.4	389.0	334.5	313.5	313.5	315.9
65°	15233.6	10988.7	1620.6	889.6	635.6	454.7	380.4	328.3	298.6	285.0	286.2
67.5°	14223.8	9664.2	1388.9	900.8	634.4	437.4	366.7	317.2	283.7	262.7	261.4
69°	12958.8	8338.5	1284.8	871.0	604.6	415.1	349.4	304.8	272.6	250.3	249.0
70°	11939.1	7529.4	1216.7	838.8	572.4	399.0	335.8	293.6	263.9	242.8	240.4
72.5°	8680.5	4933.7	1039.5	721.1	472.1	334.5	289.9	257.7	235.4	223.0	220.5
75°	4337.8	2352.9	843.8	584.8	361.8	267.6	237.9	215.6	204.4	202.0	200.7
77.5°	1424.9	1077.9	603.4	436.1	268.9	209.4	192.0	175.9	173.5	180.9	178.4
80°	783.1	626.9	382.9	288.7	183.4	153.6	151.2	142.5	146.2	158.6	156.1
82.5°	399.0	325.9	236.7	173.5	123.9	110.3	120.2	115.2	120.2	131.3	130.1
85°	197.0	178.4	149.9	105.3	81.8	70.6	85.5	89.2	91.7	100.4	100.4
87.5°	114.0	105.3	79.3	49.6	40.9	37.2	49.6	48.3	57.0	62.0	60.7
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)