

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: P269642

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7027-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269642  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-7027-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28944.9 lumens  
Efficiency: N/A  
Efficacy: 99.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

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

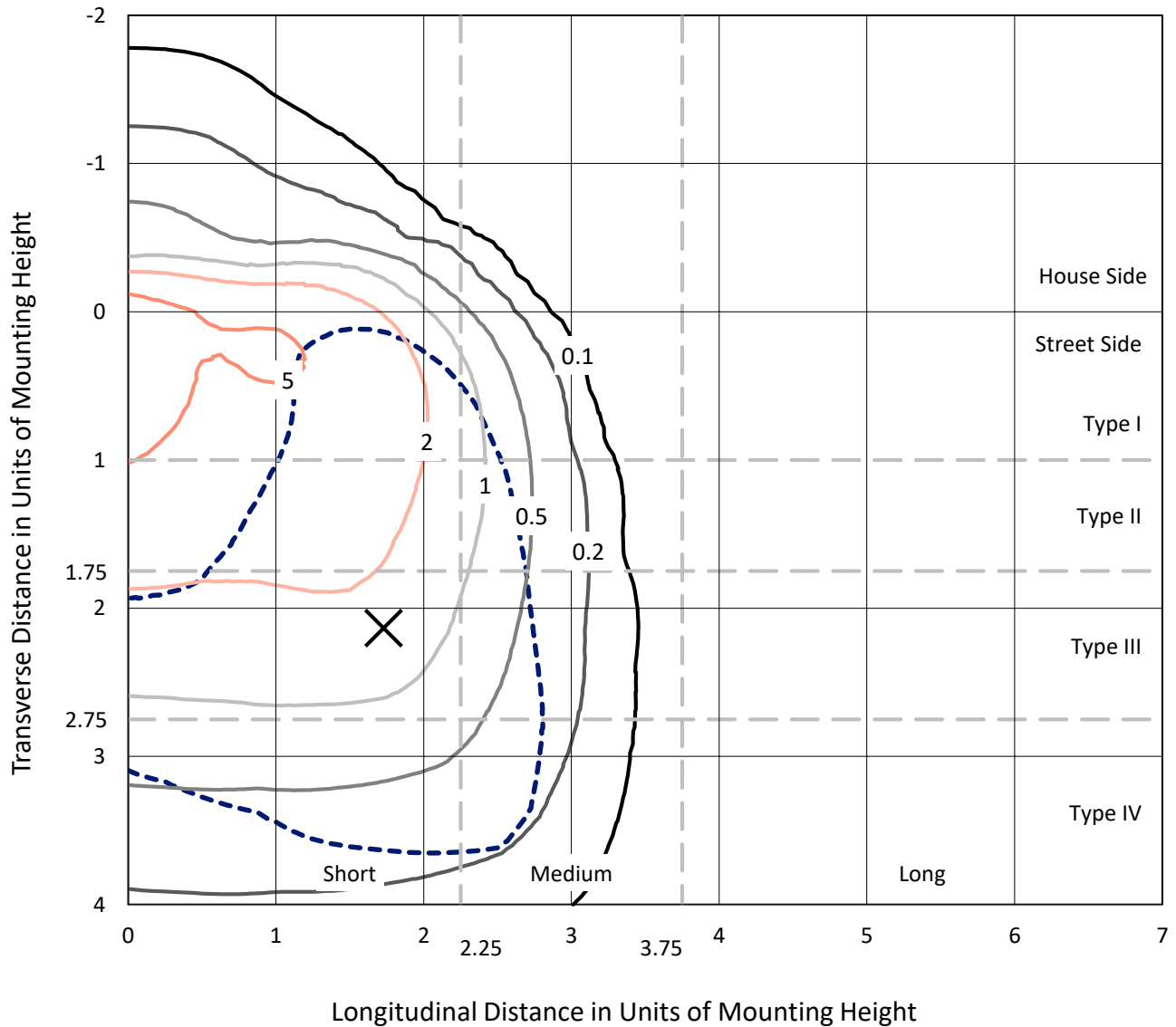


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### Iso-Footcandle Lines of Horizontal Illumination

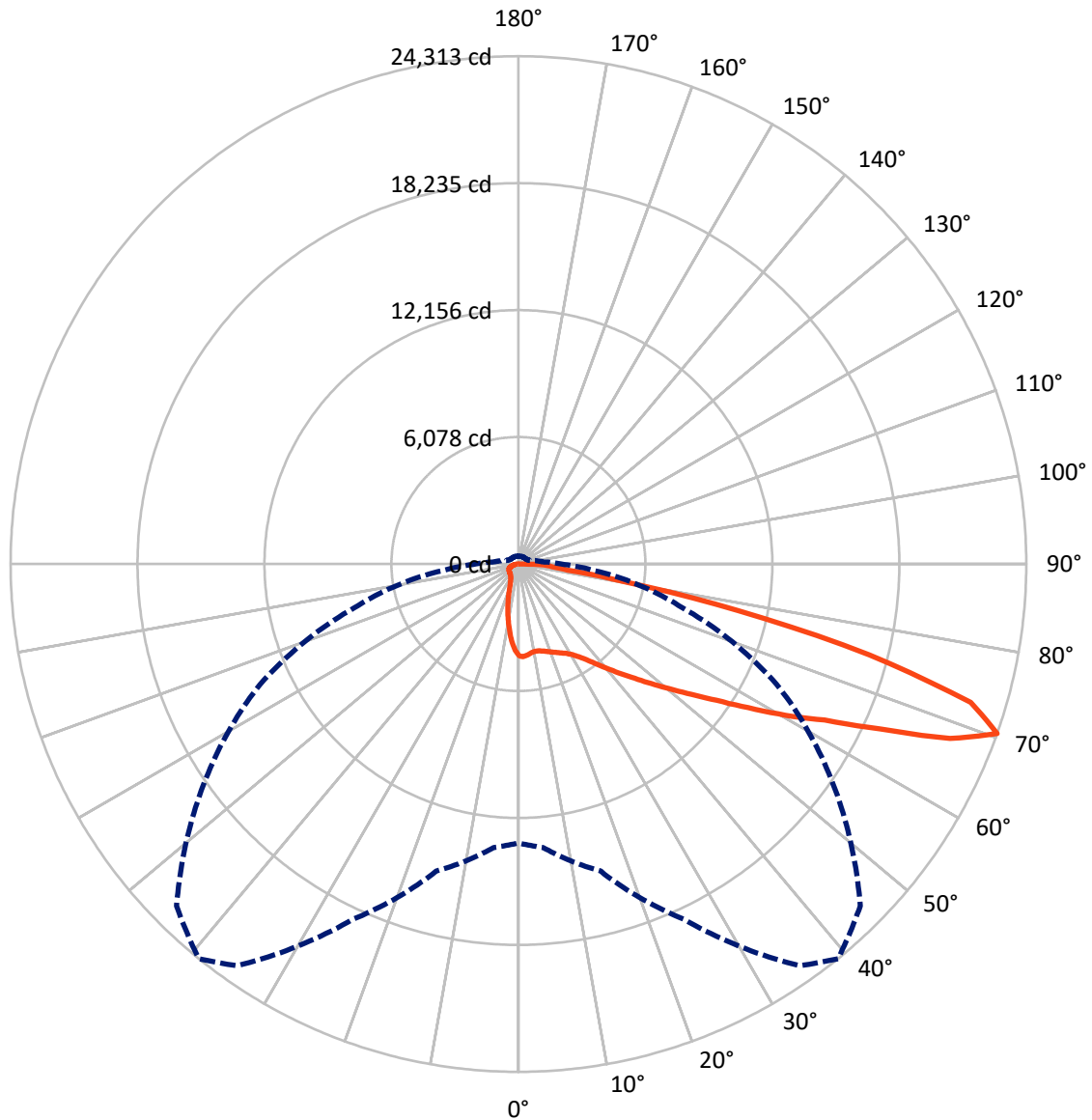
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3292.0	0.0	3292.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	25652.9	0.0	25652.9
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	28944.9	0.0	28944.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	377.1	1.3
10°-20°	942.6	3.3
20°-30°	1467.7	5.1
30°-40°	2286.4	7.9
40°-50°	3838.5	13.3
50°-60°	6097.8	21.1
60°-70°	8133.8	28.1
70°-80°	4911.8	17.0
80°-90°	889.0	3.1
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°	28944.9	100.0
0°-180°	28944.9	100.0



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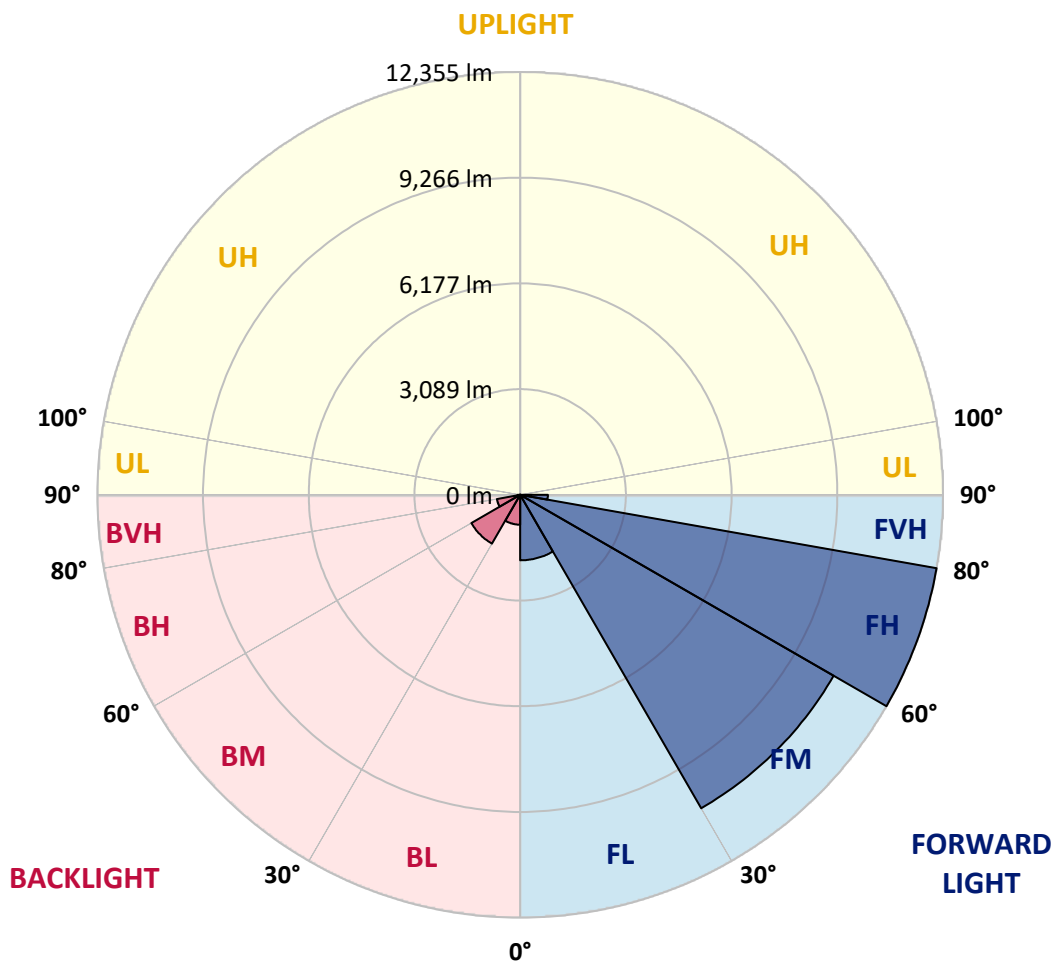
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1914.2	6.6			
FM	(30°-60°)	10575.3	36.5			
FH	(60°-80°)	12354.5	42.7			G5
FVH	(80°-90°)	808.8	2.8			G5
BL	(0°-30°)	873.3	3.0	B2/1000		
BM	(30°-60°)	1647.5	5.7	B2/2500		
BH	(60°-80°)	691.1	2.4	B2/1000		G2/1000
BVH	(80°-90°)	80.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2
2.5°	4479.7	4478.2	4466.5	4457.6	4450.3	4447.2	4453.2	4431.1	4411.9	4388.4	4363.3
5°	4445.8	4444.4	4425.2	4407.5	4389.8	4384.0	4382.6	4342.8	4319.2	4283.8	4236.9
7.5°	4409.1	4401.6	4376.6	4347.2	4316.3	4301.5	4286.8	4235.4	4208.9	4173.5	4119.1
10°	4370.8	4361.9	4338.4	4308.9	4279.4	4257.3	4232.5	4182.4	4154.4	4127.9	4064.7
12.5°	4331.0	4323.6	4317.8	4304.5	4283.8	4264.8	4245.7	4203.0	4173.5	4142.7	4069.1
15°	4325.1	4322.1	4335.4	4344.3	4332.4	4320.7	4300.0	4263.3	4232.5	4201.6	4105.9
17.5°	4372.2	4370.8	4404.6	4428.1	4422.3	4401.6	4373.7	4332.4	4307.5	4281.0	4161.8
20°	4475.3	4482.6	4523.8	4554.6	4525.2	4495.7	4450.3	4392.8	4379.5	4367.7	4219.2
22.5°	4669.5	4676.8	4706.3	4718.1	4641.5	4598.9	4535.5	4462.1	4453.2	4462.1	4288.2
25°	4972.7	4965.3	4960.9	4916.8	4776.8	4710.7	4629.8	4553.1	4557.6	4597.3	4385.4
27.5°	5374.4	5334.7	5272.8	5140.5	4918.2	4844.6	4745.9	4675.4	4703.3	4779.8	4531.1
30°	5790.8	5746.6	5603.9	5387.7	5103.6	5022.7	4912.3	4832.8	4906.5	5027.1	4725.4
32.5°	6176.4	6170.5	5961.5	5683.4	5359.6	5289.0	5178.6	5088.9	5208.2	5392.0	5016.8
35°	6597.3	6610.5	6360.4	6026.3	5705.6	5632.0	5552.5	5484.7	5643.7	5896.8	5439.1
37.5°	7047.7	7074.2	6778.3	6401.6	6099.9	6068.9	6021.9	5992.5	6238.2	6588.4	6029.2
40°	7649.5	7623.0	7212.4	6825.4	6584.0	6582.6	6567.9	6603.3	7012.3	7492.0	6787.1
42.5°	8294.1	8216.1	7673.1	7280.1	7115.4	7165.4	7194.7	7339.1	7943.8	8590.0	7711.3
45°	8988.7	8813.6	8151.3	7761.4	7705.4	7811.4	7911.5	8224.9	9040.3	9839.2	8723.8
47.5°	9543.6	9374.3	8645.7	8266.2	8388.3	8548.7	8741.4	9237.5	10267.5	11129.9	9723.1
50°	9980.6	9870.1	9144.7	8854.9	9140.3	9387.5	9702.5	10383.8	11544.8	12386.6	10648.7
52.5°	10404.3	10322.1	9647.9	9458.2	10023.3	10364.6	10793.0	11614.0	12854.7	13622.8	11427.2
55°	10787.0	10728.2	10189.6	10210.1	11062.2	11506.7	12045.3	13015.1	14282.2	14725.0	12086.4
57.5°	11218.3	11143.1	10807.7	11153.4	12397.0	12974.0	13674.4	14589.7	15621.3	15705.2	12588.3
60°	11652.4	11587.5	11493.5	12242.6	14092.3	14698.5	15362.4	16115.9	16979.7	16466.0	12558.8
62.5°	12029.1	12036.4	12202.8	13386.0	15752.3	16454.3	17263.6	18008.3	18208.5	16598.5	11630.3
65°	12667.8	12784.0	13280.0	15004.7	18089.3	19028.2	20021.6	19902.3	18548.5	15360.8	9639.2
67.5°	13427.1	13631.7	14636.9	17162.1	21042.7	22289.3	22673.4	20330.5	17187.1	12486.8	6871.0
70°	13350.6	13631.7	15222.5	18770.7	23476.8	24312.7	23147.3	18399.8	13647.9	8157.1	3649.6
72.5°	11855.4	12257.3	14029.0	18033.4	22710.2	22636.6	20095.1	13717.1	8108.7	3275.8	1426.0
75°	9035.8	9441.9	10966.6	14246.8	17949.5	17331.4	14258.5	7577.5	3077.1	1300.9	899.2
77.5°	5197.9	5512.7	6689.9	8737.0	11387.5	10753.3	7936.4	3370.0	1498.2	906.5	701.9
80°	2902.1	3077.1	3792.4	4432.5	5580.5	5115.4	3551.0	2094.0	1118.4	657.7	541.6
82.5°	2294.4	2450.2	3066.9	2796.1	2548.9	2351.7	2039.7	1864.5	893.3	414.9	323.7
85°	2004.4	2153.0	2595.9	2201.6	1740.9	1596.6	1657.1	1835.1	694.6	250.2	276.7
87.5°	1857.2	2056.0	2313.3	1696.8	1355.4	1200.9	1529.1	2011.8	223.7	155.9	111.8
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°	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2	4394.2
2.5°	4341.2	4317.8	4279.4	4245.7	4192.7	4164.7	4133.8	4111.7	4094.0	4079.4	4102.9
5°	4207.4	4163.3	4082.3	3995.5	3892.4	3811.5	3743.9	3680.5	3636.3	3607.0	3627.5
7.5°	4080.8	4008.6	3882.1	3724.7	3548.0	3398.0	3274.4	3165.4	3090.3	3041.8	3061.0
10°	4008.6	3918.9	3723.3	3476.0	3215.6	2981.6	2787.4	2619.5	2503.2	2437.0	2447.3
12.5°	3991.1	3874.7	3604.0	3264.1	2908.0	2582.6	2309.0	2076.4	1913.1	1827.7	1830.7
15°	4004.4	3855.6	3492.3	3061.0	2610.7	2200.0	1858.7	1576.2	1386.3	1289.2	1287.7
17.5°	4026.4	3841.0	3374.5	2841.7	2309.0	1832.2	1451.0	1174.4	1006.6	928.6	922.6
20°	4049.9	3817.3	3242.1	2604.7	1995.6	1490.7	1136.0	919.8	813.9	771.1	768.2
22.5°	4083.8	3796.7	3105.1	2354.5	1687.9	1214.1	934.4	788.8	732.8	710.7	707.9
25°	4138.2	3786.4	2959.5	2094.0	1411.2	1015.4	813.9	724.0	691.6	677.0	675.4
27.5°	4229.5	3801.2	2822.6	1840.9	1186.1	881.4	746.1	691.6	668.1	654.9	653.3
30°	4347.2	3846.8	2678.3	1601.0	1011.0	790.2	704.9	669.5	650.5	637.2	637.2
32.5°	4542.9	3923.3	2526.8	1393.6	885.9	727.0	674.0	650.5	634.3	624.0	622.4
35°	4831.4	4067.5	2385.4	1221.4	796.2	681.4	647.5	629.8	618.0	612.1	612.1
37.5°	5250.8	4295.6	2260.4	1097.8	741.7	650.5	622.4	609.2	602.0	602.0	602.0
40°	5814.4	4610.6	2158.8	1015.4	710.7	628.4	603.4	593.2	588.7	590.1	590.1
42.5°	6510.5	5019.6	2091.2	958.0	696.0	615.1	590.1	581.4	576.9	575.5	576.9
45°	7303.7	5484.7	2083.8	915.4	681.4	606.4	581.4	572.5	563.6	557.8	557.8
47.5°	8074.9	5957.1	2144.2	900.6	665.1	596.0	573.9	565.2	551.9	538.7	538.7
50°	8756.1	6358.9	2225.1	906.5	659.3	581.4	562.2	557.8	537.1	522.5	520.9
52.5°	9297.7	6667.9	2291.3	924.1	665.1	571.1	547.4	549.0	526.9	510.6	509.2
55°	9731.9	6871.0	2273.7	941.9	678.4	565.2	534.2	537.1	519.5	503.3	503.3
57.5°	9921.7	6795.9	2077.9	927.1	688.7	566.7	523.9	535.7	520.9	506.3	506.3
60°	9514.0	6129.3	1711.5	862.4	675.4	562.2	519.5	541.6	540.2	525.4	523.9
62.5°	8280.8	4935.8	1327.4	766.8	629.8	540.2	507.7	540.2	556.3	551.9	550.4
65°	6382.5	3515.7	1013.9	663.7	568.1	503.3	476.8	506.3	528.4	534.2	532.8
67.5°	4142.7	2154.4	781.4	566.7	498.9	460.7	437.0	450.3	454.7	454.7	451.8
70°	2036.7	1159.6	622.4	476.8	428.2	414.9	401.7	394.4	387.0	381.2	381.2
72.5°	1005.2	757.9	512.2	403.2	369.4	363.5	360.6	351.7	345.8	338.5	335.5
75°	743.2	616.5	435.6	340.0	317.9	312.0	317.9	310.5	309.0	303.2	300.3
77.5°	610.7	525.4	375.2	291.4	272.2	261.9	270.7	272.2	273.8	264.9	261.9
80°	496.0	444.4	313.5	241.4	223.7	216.3	222.2	234.0	237.0	223.7	217.7
82.5°	357.6	363.5	253.1	188.4	173.6	167.8	179.5	194.3	197.2	178.0	173.6
85°	300.3	303.2	194.3	133.8	119.3	110.4	129.4	144.2	154.5	135.4	131.0
87.5°	125.0	178.0	111.8	75.1	66.3	57.4	69.2	76.5	92.7	85.3	83.9
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)