

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: P191981

Luminaire Tested: **GLEON-AF-03-LED-E1-SL3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191981
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-03-LED-E1-SL3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 19936 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 191
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

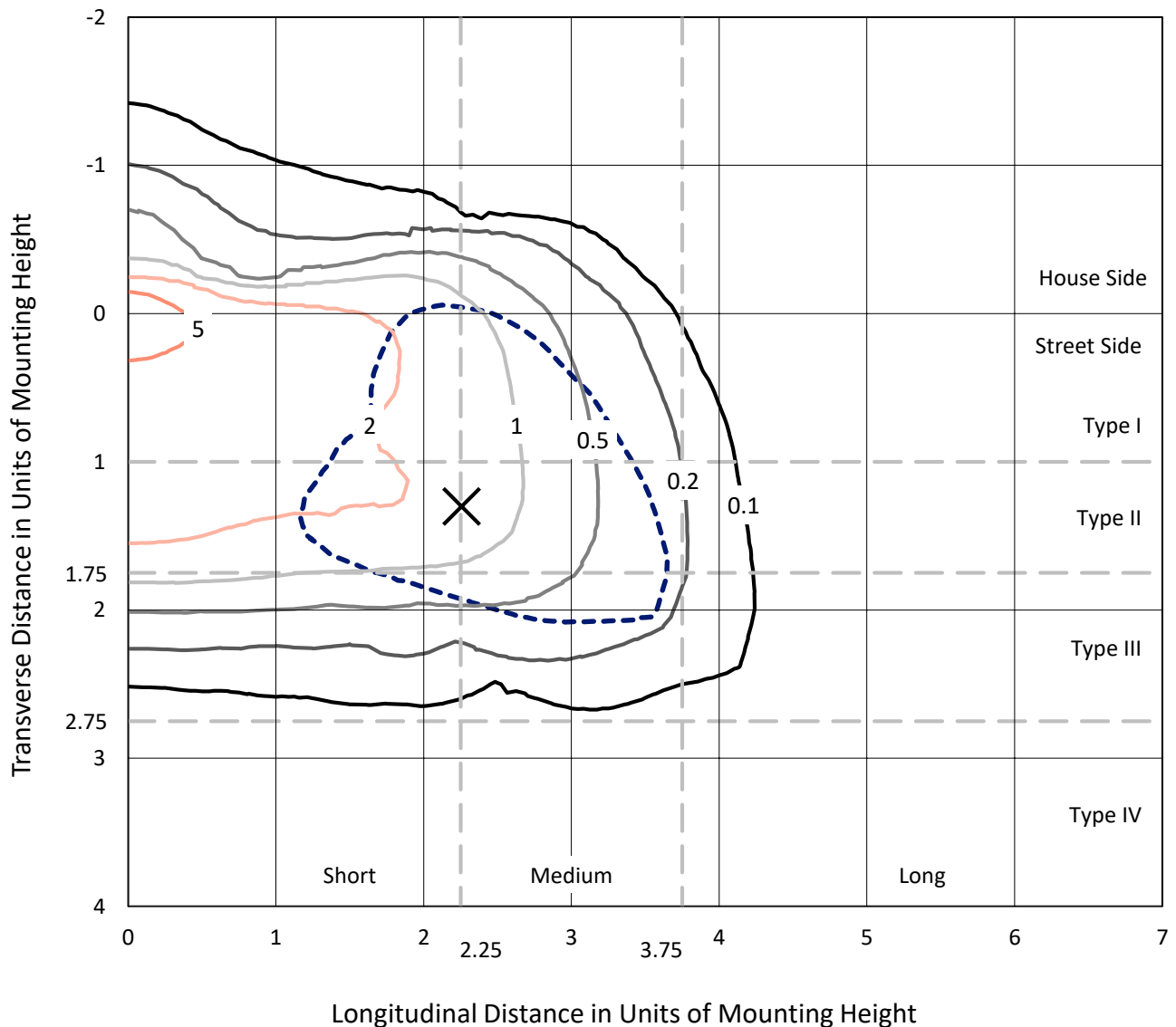


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

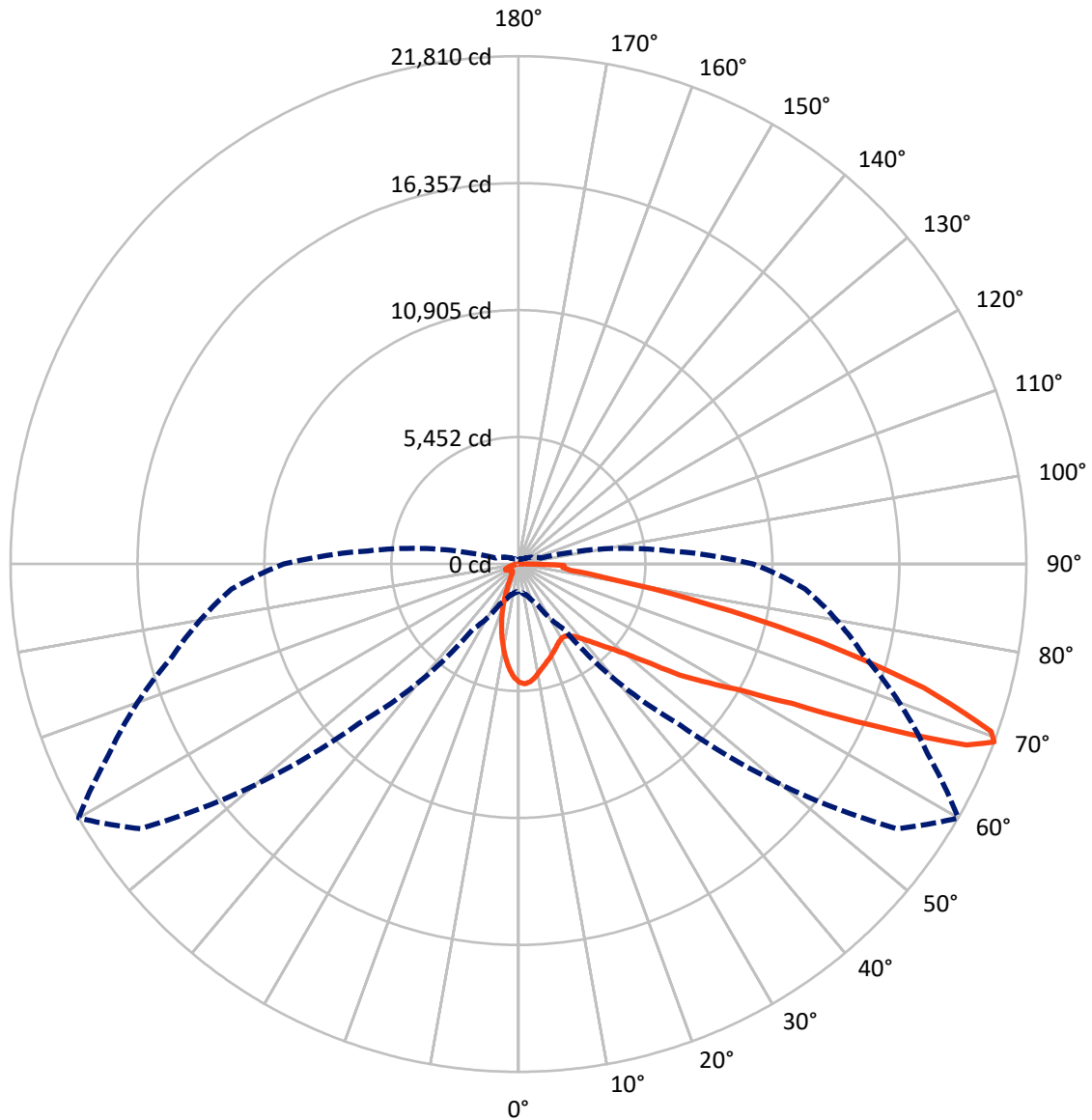


Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - Non-Cutoff

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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
House Side	Lumens	2836.3	0.0	2836.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17099.7	0.0	17099.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	19936.0	0.0	19936.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.5	2.2
10°-20°	915.1	4.6
20°-30°	1166.1	5.8
30°-40°	1603.0	8.0
40°-50°	2601.1	13.0
50°-60°	4171.5	20.9
60°-70°	5551.9	27.8
70°-80°	2997.6	15.0
80°-90°	500.2	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°	19936.0	100.0
0°-180°	19936.0	100.0



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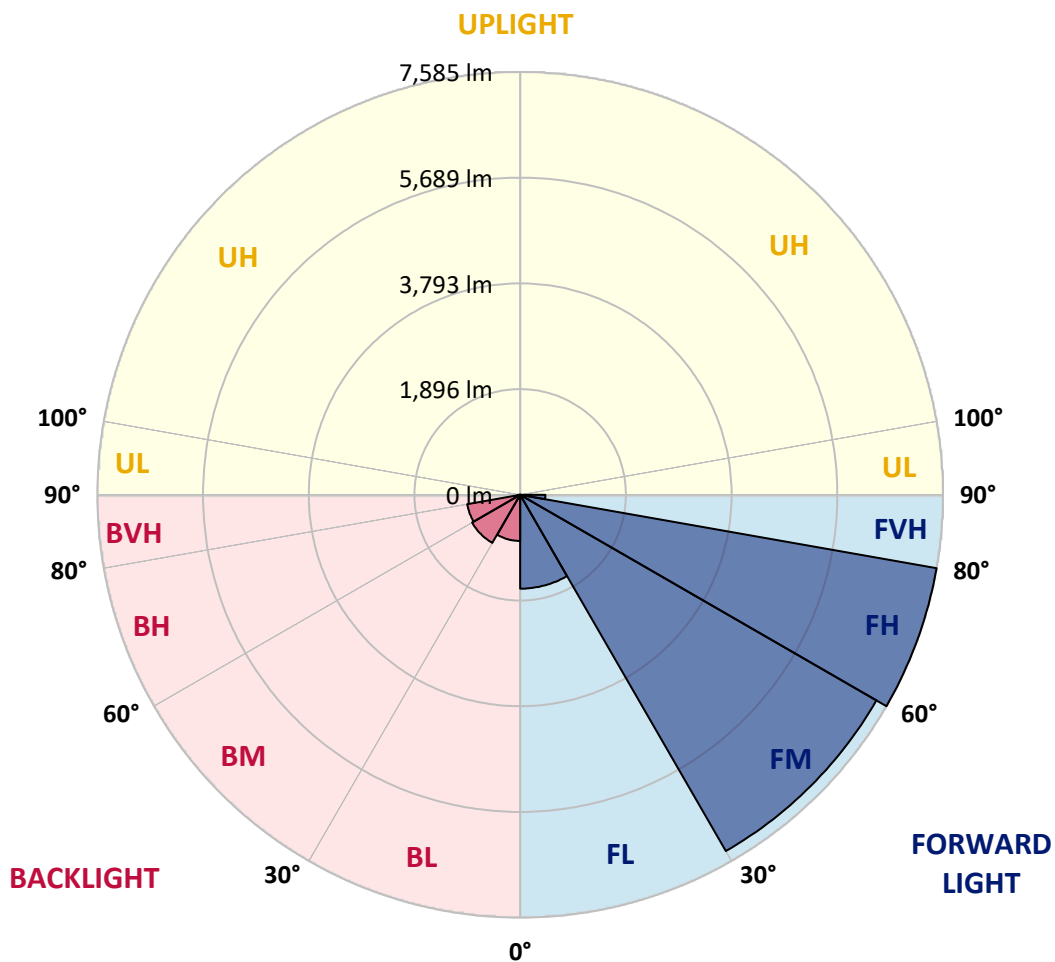
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1683.3	8.4			
FM (30°-60°)	7379.1	37.0			
FH (60°-80°)	7585.3	38.0			G4/12000
FVH (80°-90°)	452.0	2.3			G3/500
BL (0°-30°)	827.4	4.2	B2/1000		
BM (30°-60°)	996.4	5.0	B1/1000		
BH (60°-80°)	964.2	4.8	B2/1000		G2/1000
BVH (80°-90°)	48.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0
2.5°	5184.0	5195.6	5190.7	5187.9	5196.5	5183.0	5155.1	5146.4	5133.0	5101.2	5047.3
5°	4989.5	5024.1	5022.2	5048.2	5091.6	5103.1	5090.6	5092.5	5067.5	5028.0	4938.4
7.5°	4653.4	4667.8	4675.5	4732.3	4811.3	4874.9	4928.8	4946.1	4934.6	4900.9	4785.3
10°	4306.7	4318.2	4336.5	4403.0	4503.1	4590.8	4692.9	4751.6	4776.6	4770.9	4641.8
12.5°	4009.1	4020.7	4044.7	4119.9	4239.3	4347.1	4495.4	4568.6	4628.3	4664.0	4525.3
15°	3742.3	3767.4	3790.5	3877.2	4011.0	4152.6	4320.2	4412.6	4505.1	4585.0	4422.2
17.5°	3534.3	3559.4	3572.8	3651.8	3794.3	3967.7	4164.2	4273.0	4388.5	4519.5	4320.2
20°	3413.9	3425.5	3419.7	3464.0	3592.1	3776.0	4009.1	4135.3	4274.9	4457.9	4218.1
22.5°	3380.2	3381.2	3360.0	3355.2	3438.0	3593.1	3843.5	3996.6	4168.0	4417.4	4130.4
25°	3462.1	3459.2	3401.4	3354.2	3362.9	3453.4	3683.6	3861.8	4078.4	4408.8	4063.0
27.5°	3644.1	3652.8	3567.1	3478.5	3390.8	3387.9	3562.3	3750.0	4005.3	4448.2	4034.1
30°	3899.3	3913.8	3822.3	3709.6	3544.9	3409.1	3515.1	3683.6	3960.0	4530.1	4029.3
32.5°	4178.6	4194.0	4124.7	4006.2	3790.5	3540.1	3547.8	3689.4	3958.1	4644.7	4062.1
35°	4476.2	4493.5	4457.9	4357.7	4117.9	3781.8	3673.0	3782.8	4020.7	4820.0	4149.7
37.5°	4808.4	4835.4	4845.0	4749.7	4493.5	4100.6	3878.1	3960.0	4162.2	5063.6	4310.5
40°	5287.0	5324.6	5321.7	5185.0	4924.0	4531.1	4195.0	4216.2	4382.8	5389.1	4567.7
42.5°	6203.9	6211.6	5971.8	5674.2	5397.8	4983.7	4568.6	4551.3	4687.1	5801.3	4946.1
45°	7370.1	7338.3	6804.8	6229.9	5892.8	5503.7	5055.0	4970.2	5073.3	6304.0	5419.9
47.5°	8337.9	8264.7	7590.6	6797.1	6416.7	6069.0	5626.0	5477.7	5534.5	6874.1	6032.4
50°	8674.0	8619.1	8060.6	7269.0	6912.6	6758.6	6329.0	6119.1	6134.5	7554.0	6749.9
52.5°	8601.8	8594.1	8221.4	7580.0	7376.8	7482.8	7324.8	7040.7	6890.5	8309.0	7524.2
55°	8431.3	8447.7	8312.9	7942.1	7907.5	8181.9	8625.9	8415.9	7948.9	9070.8	8324.5
57.5°	7839.1	7881.5	8178.1	8397.6	8761.7	9170.0	9673.7	9614.0	9088.1	9894.2	9275.9
60°	6315.6	6413.8	7209.3	8309.0	9640.9	10917.9	11143.2	11004.6	10263.0	10916.0	10532.7
62.5°	4425.1	4527.2	5472.9	7193.9	9496.5	12892.1	13770.4	13172.4	11950.3	12421.2	12159.2
65°	2369.1	2418.2	3140.4	4991.4	8017.2	13299.5	17610.0	16699.9	14621.7	14277.0	13550.8
67.5°	1306.8	1333.8	1610.2	2520.3	5134.9	11711.4	20056.1	20743.7	17960.6	15512.5	13297.6
69°	1181.6	1206.7	1387.7	1908.7	3436.1	9683.3	19817.3	21809.8	19424.4	15390.2	12361.5
70°	1155.6	1178.8	1341.5	1759.5	2781.2	7981.6	19017.0	21537.3	19773.0	14952.0	11544.8
72.5°	1040.1	1065.1	1223.1	1580.3	2376.8	3979.2	15063.8	18210.0	17951.9	12964.3	8756.9
75°	969.8	992.9	1260.6	1547.6	2275.6	2518.3	9930.8	13420.8	13196.4	9068.9	4721.7
77.5°	415.1	413.1	584.6	1309.7	2309.4	2438.4	5336.2	8384.2	7649.4	3876.2	1355.9
80°	277.4	272.5	277.4	385.2	2117.7	2451.9	2795.7	4255.6	3214.6	988.1	668.3
82.5°	238.8	235.0	243.6	235.0	744.4	2798.6	2376.8	2263.1	1528.3	561.4	331.3
85°	160.8	154.1	209.9	210.9	351.5	2486.5	2677.2	1911.6	1236.5	333.2	163.7
87.5°	77.0	75.1	122.3	149.3	206.1	1010.2	3003.7	1958.8	1247.1	170.5	78.0
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°	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0	5080.0
2.5°	5030.9	4991.4	4952.9	4906.6	4858.5	4804.6	4777.6	4750.6	4743.9	4736.2	4709.2
5°	4892.2	4836.3	4740.0	4634.1	4522.4	4413.6	4330.8	4278.8	4239.3	4219.0	4183.4
7.5°	4713.1	4631.2	4462.7	4279.7	4091.9	3920.5	3772.2	3678.8	3590.2	3548.8	3501.6
10°	4542.6	4420.3	4158.4	3888.7	3619.1	3360.0	3116.4	2944.0	2790.9	2705.2	2644.5
12.5°	4396.2	4228.7	3865.6	3500.6	3130.8	2762.0	2397.0	2110.0	1870.2	1744.1	1679.5
15°	4253.7	4051.5	3587.3	3124.1	2649.3	2147.6	1668.0	1342.5	1144.1	1065.1	1038.1
17.5°	4124.7	3865.6	3308.0	2744.6	2152.4	1545.7	1121.0	941.8	865.8	839.8	831.1
20°	3985.0	3677.8	3018.1	2347.9	1634.3	1080.5	875.4	796.4	765.6	757.9	754.1
22.5°	3850.2	3492.9	2740.8	1923.2	1173.9	834.0	752.1	719.4	714.6	721.3	721.3
25°	3735.6	3327.3	2441.3	1479.2	861.9	702.1	673.2	665.5	683.8	708.8	713.6
27.5°	3649.9	3191.5	2122.5	1092.1	686.6	610.6	609.6	622.1	667.4	715.5	725.2
30°	3591.1	3062.4	1781.6	787.8	575.9	537.4	552.8	579.7	646.2	714.6	732.9
32.5°	3561.3	2967.1	1426.3	609.6	493.1	471.9	497.9	530.6	596.1	659.7	683.8
35°	3584.4	2896.8	1091.1	508.5	435.3	418.9	445.9	477.7	516.2	543.2	561.4
37.5°	3671.1	2868.9	823.4	455.5	395.8	380.4	401.6	419.9	435.3	443.0	451.7
40°	3857.9	2898.7	659.7	428.5	373.7	354.4	363.1	369.8	379.4	387.1	391.0
42.5°	4133.3	2988.3	591.3	418.0	362.1	334.2	332.2	335.1	347.7	362.1	365.0
45°	4518.5	3146.2	586.5	424.7	356.3	317.8	309.1	313.0	332.2	354.4	358.2
47.5°	5010.7	3387.0	625.0	444.9	361.1	309.1	294.7	299.5	323.6	353.4	358.2
50°	5606.8	3723.1	689.5	474.8	382.3	311.1	289.9	292.8	317.8	350.5	355.4
52.5°	6310.8	4199.8	759.8	503.7	404.5	323.6	293.7	287.0	310.1	339.0	344.8
55°	7093.7	4811.3	832.1	529.7	416.0	339.0	301.4	279.3	295.7	319.7	324.5
57.5°	8054.8	5666.5	957.3	554.7	423.7	349.6	309.1	271.6	277.4	294.7	298.5
60°	9355.9	6876.1	1177.8	596.1	441.1	353.4	308.2	264.8	259.1	268.7	270.6
62.5°	10915.0	8189.6	1361.7	648.1	470.0	356.3	302.4	260.0	243.6	243.6	245.6
65°	11840.5	8541.1	1259.6	691.5	494.0	353.4	295.7	255.2	232.1	221.5	222.5
67.5°	11055.6	7511.7	1079.6	700.1	493.1	340.0	285.1	246.5	220.5	204.2	203.2
69°	10072.4	6481.2	998.7	677.0	470.0	322.6	271.6	236.9	211.9	194.5	193.6
70°	9279.8	5852.3	945.7	652.0	444.9	310.1	261.0	228.2	205.1	188.8	186.8
72.5°	6747.0	3834.8	808.0	560.5	366.9	260.0	225.3	200.3	183.0	173.3	171.4
75°	3371.6	1828.8	655.8	454.6	281.2	208.0	184.9	167.6	158.9	157.0	156.0
77.5°	1107.5	837.8	469.0	339.0	209.0	162.8	149.3	136.8	134.8	140.6	138.7
80°	608.6	487.3	297.6	224.4	142.5	119.4	117.5	110.7	113.6	123.3	121.3
82.5°	310.1	253.3	183.9	134.8	96.3	85.7	93.4	89.6	93.4	102.1	101.1
85°	153.1	138.7	116.5	81.9	63.6	54.9	66.4	69.3	71.3	78.0	78.0
87.5°	88.6	81.9	61.6	38.5	31.8	28.9	38.5	37.6	44.3	48.2	47.2
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)