

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: P193695

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193695
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-SL3-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 22637 lumens
Efficiency: N/A
Efficacy: 100.2 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

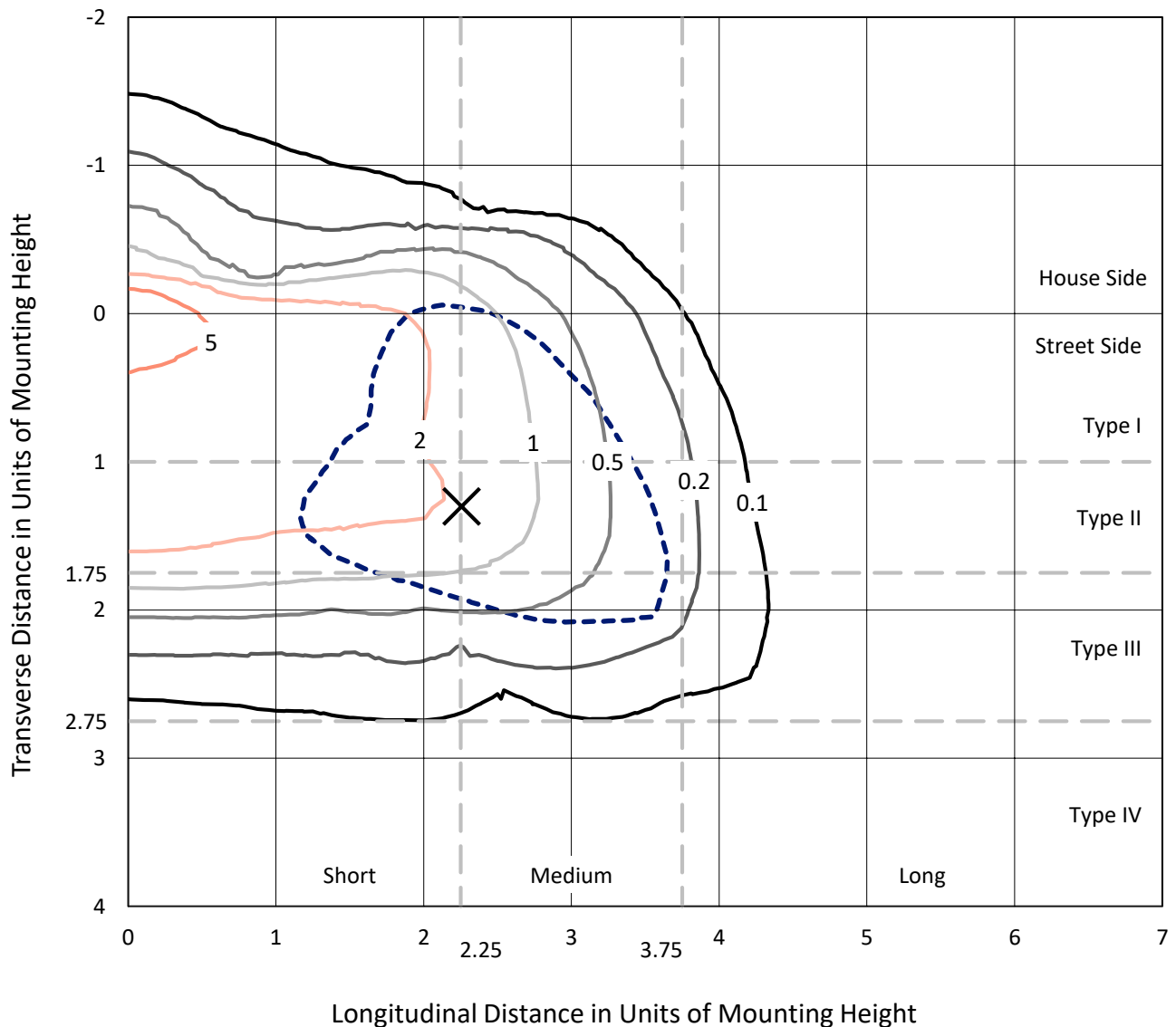
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

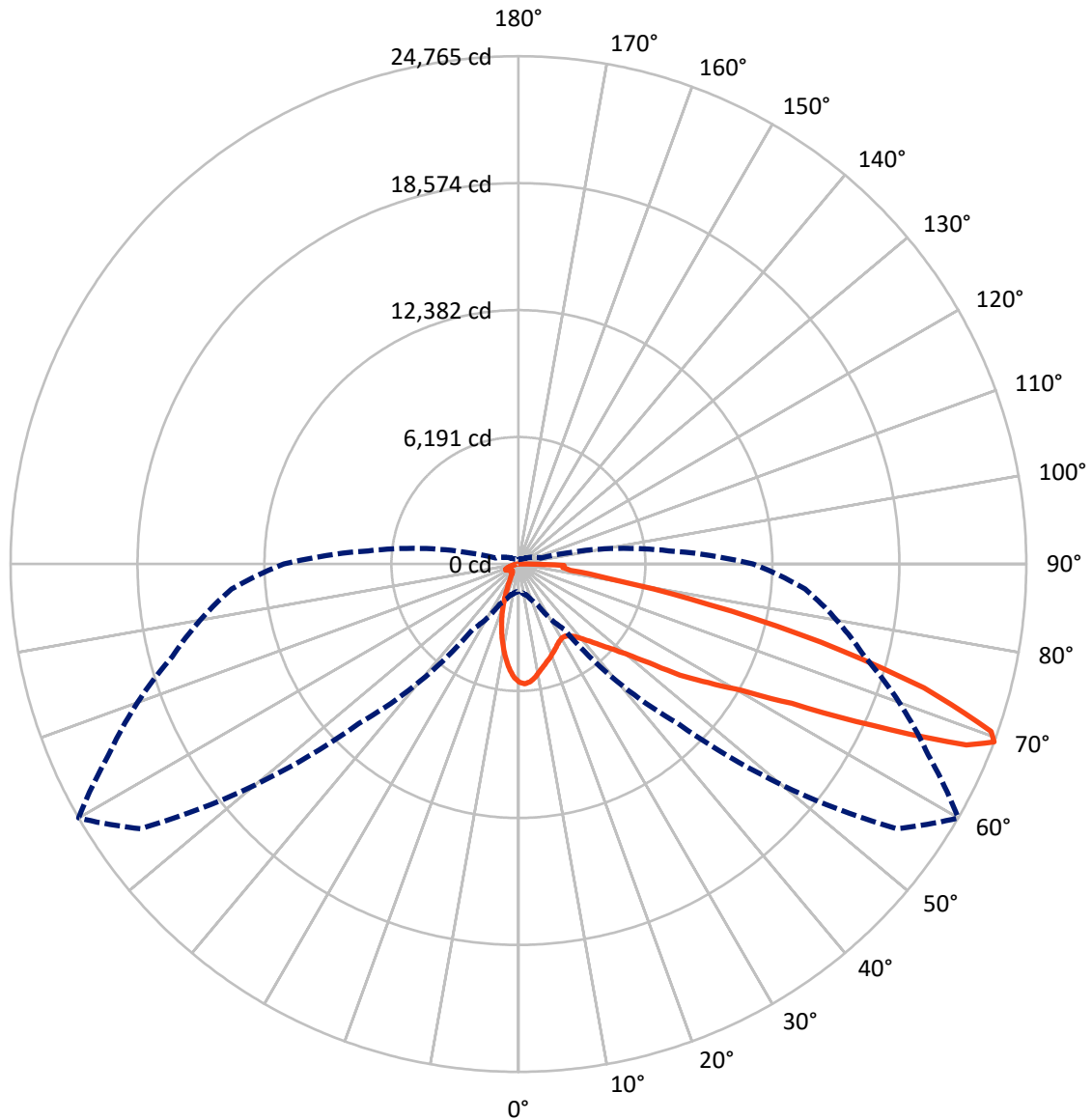
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	3220.5	0.0	3220.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	19416.5	0.0	19416.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	22637.0	0.0	22637.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.7	2.2
10°-20°	1039.1	4.6
20°-30°	1324.0	5.8
30°-40°	1820.2	8.0
40°-50°	2953.5	13.0
50°-60°	4736.6	20.9
60°-70°	6304.1	27.8
70°-80°	3403.7	15.0
80°-90°	567.9	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°	22637.0	100.0
0°-180°	22637.0	100.0

Coefficient of Utilization



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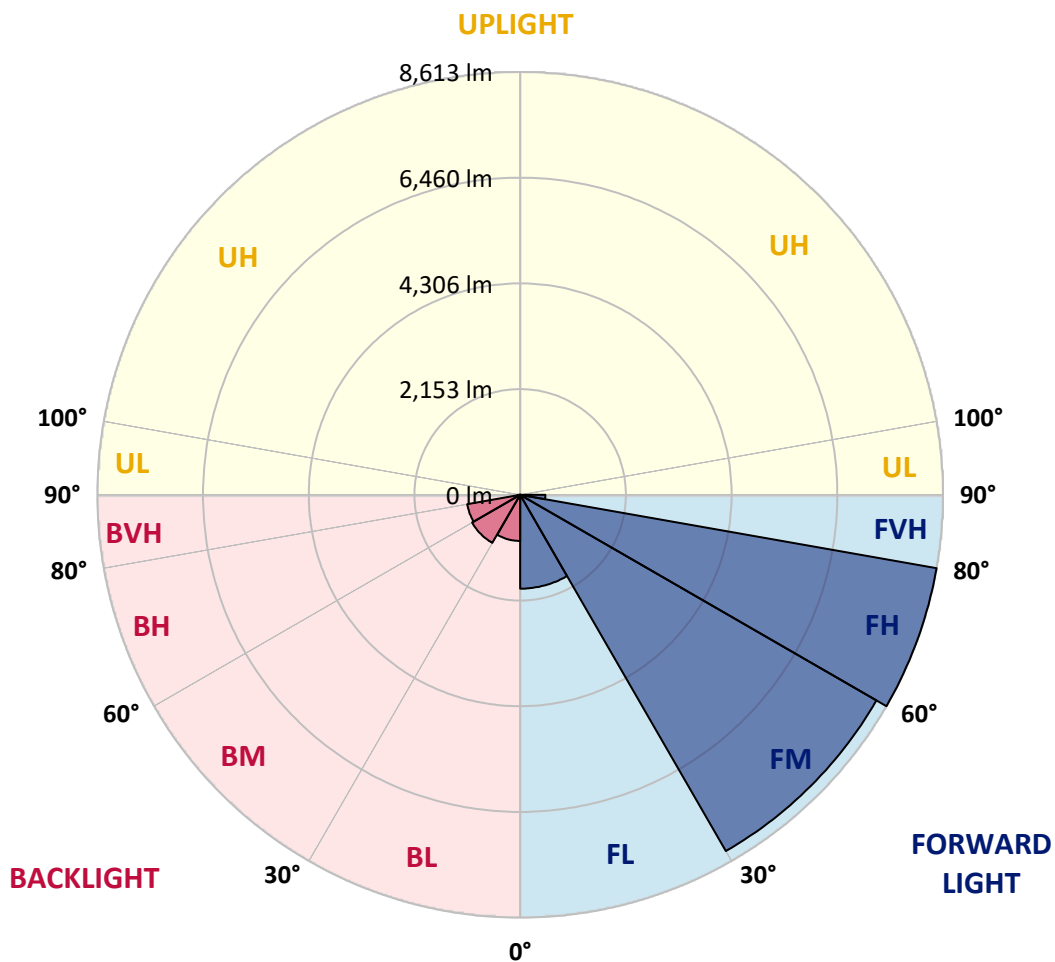
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1911.4	8.4			
FM (30°-60°)	8378.9	37.0			
FH (60°-80°)	8612.9	38.0			G4/12000
FVH (80°-90°)	513.2	2.3			G4/750
BL (0°-30°)	939.5	4.2	B2/1000		
BM (30°-60°)	1131.4	5.0	B2/2500		
BH (60°-80°)	1094.9	4.8	B3/2500		G3/2500
BVH (80°-90°)	54.7	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°	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3
2.5°	5886.4	5899.5	5894.0	5890.7	5900.6	5885.3	5853.5	5843.7	5828.4	5792.3	5731.1
5°	5665.5	5704.8	5702.6	5732.2	5781.4	5794.5	5780.3	5782.5	5754.0	5709.2	5607.5
7.5°	5283.8	5300.2	5309.0	5373.5	5463.2	5535.3	5596.6	5616.3	5603.1	5564.9	5433.6
10°	4890.2	4903.3	4924.1	4999.5	5113.2	5212.7	5328.7	5395.4	5423.8	5417.2	5270.7
12.5°	4552.3	4565.4	4592.7	4678.0	4813.6	4936.1	5104.5	5187.6	5255.4	5295.9	5138.4
15°	4249.4	4277.8	4304.0	4402.5	4554.5	4715.2	4905.5	5010.5	5115.4	5206.2	5021.4
17.5°	4013.2	4041.6	4056.9	4146.6	4308.4	4505.3	4728.3	4851.9	4983.1	5131.8	4905.5
20°	3876.5	3889.6	3883.0	3933.3	4078.8	4287.6	4552.3	4695.5	4854.1	5061.8	4789.6
22.5°	3838.2	3839.3	3815.2	3809.8	3903.8	4079.9	4364.2	4538.1	4732.7	5015.9	4690.1
25°	3931.2	3927.9	3862.3	3808.7	3818.5	3921.3	4182.7	4385.0	4631.0	5006.1	4613.5
27.5°	4137.8	4147.7	4050.4	3949.7	3850.2	3847.0	4044.9	4258.1	4547.9	5050.9	4580.7
30°	4427.6	4444.0	4340.1	4212.2	4025.2	3871.0	3991.3	4182.7	4496.5	5143.9	4575.2
32.5°	4744.7	4762.2	4683.5	4549.0	4304.0	4019.7	4028.5	4189.2	4494.3	5274.0	4612.4
35°	5082.6	5102.3	5061.8	4948.1	4675.8	4294.2	4170.6	4295.3	4565.4	5473.0	4711.9
37.5°	5459.9	5490.5	5501.4	5393.2	5102.3	4656.2	4403.6	4496.5	4726.1	5749.7	4894.5
40°	6003.4	6046.0	6042.7	5887.4	5591.1	5145.0	4763.3	4787.4	4976.6	6119.3	5186.5
42.5°	7044.4	7053.1	6780.8	6442.9	6129.1	5658.9	5187.6	5167.9	5322.1	6587.3	5616.3
45°	8368.6	8332.5	7726.7	7073.9	6691.2	6249.4	5739.8	5643.6	5760.6	7158.1	6154.3
47.5°	9467.6	9384.5	8619.0	7718.0	7286.0	6891.3	6388.3	6219.9	6284.4	7805.5	6849.7
50°	9849.2	9786.9	9152.7	8253.8	7849.2	7674.2	7186.5	6948.1	6965.6	8577.5	7664.4
52.5°	9767.2	9758.5	9335.3	8607.0	8376.3	8496.6	8317.2	7994.6	7824.0	9434.8	8543.6
55°	9573.7	9592.2	9439.2	9018.2	8978.8	9290.4	9794.5	9556.2	9025.8	10299.7	9452.3
57.5°	8901.1	8949.3	9286.1	9535.4	9948.7	10412.4	10984.3	10916.5	10319.4	11234.7	10532.7
60°	7171.2	7282.8	8186.0	9434.8	10947.1	12397.1	12653.0	12495.5	11653.5	12394.9	11959.7
62.5°	5024.7	5140.6	6214.4	8168.5	10783.1	14638.8	15636.1	14957.0	13569.3	14104.1	13806.6
65°	2690.0	2745.8	3565.9	5667.6	9103.4	15101.3	19995.9	18962.5	16602.7	16211.2	15386.7
67.5°	1483.9	1514.5	1828.3	2861.7	5830.6	13298.1	22773.4	23554.1	20393.9	17614.2	15099.1
69°	1341.7	1370.2	1575.7	2167.3	3901.6	10995.2	22502.2	24764.7	22056.0	17475.3	14036.3
70°	1312.2	1338.5	1523.3	1997.8	3158.0	9063.0	21593.5	24455.2	22451.9	16977.8	13109.0
72.5°	1181.0	1209.4	1388.8	1794.4	2698.8	4518.4	17104.6	20677.1	20384.1	14720.8	9943.3
75°	1101.2	1127.4	1431.4	1757.3	2584.0	2859.5	11276.2	15239.1	14984.3	10297.6	5361.5
77.5°	471.3	469.1	663.8	1487.2	2622.2	2768.8	6059.1	9520.1	8685.7	4401.4	1539.7
80°	314.9	309.5	314.9	437.4	2404.6	2784.1	3174.5	4832.2	3650.1	1121.9	758.9
82.5°	271.2	266.8	276.7	266.8	845.3	3177.7	2698.8	2569.7	1735.4	637.5	376.2
85°	182.6	175.0	238.4	239.5	399.1	2823.4	3040.0	2170.6	1404.1	378.4	185.9
87.5°	87.5	85.3	138.9	169.5	234.0	1147.1	3410.6	2224.2	1416.1	193.6	88.6
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°	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3	5768.3
2.5°	5712.5	5667.6	5623.9	5571.4	5516.7	5455.5	5424.9	5394.3	5386.6	5377.9	5347.3
5°	5555.0	5491.6	5382.2	5262.0	5135.1	5011.5	4917.5	4858.5	4813.6	4790.7	4750.2
7.5°	5351.6	5258.7	5067.3	4859.5	4646.3	4451.7	4283.3	4177.2	4076.6	4029.6	3976.0
10°	5158.1	5019.2	4721.8	4415.6	4109.4	3815.2	3538.6	3342.9	3169.0	3071.7	3002.8
12.5°	4991.9	4801.6	4389.3	3974.9	3555.0	3136.2	2721.7	2395.9	2123.6	1980.3	1907.1
15°	4830.0	4600.4	4073.3	3547.3	3008.2	2438.5	1894.0	1524.3	1299.1	1209.4	1178.8
17.5°	4683.5	4389.3	3756.2	3116.5	2444.0	1755.1	1272.8	1069.5	983.1	953.5	943.7
20°	4524.9	4176.1	3427.1	2666.0	1855.7	1226.9	994.0	904.3	869.3	860.6	856.2
22.5°	4371.8	3966.2	3112.1	2183.7	1333.0	947.0	854.0	816.9	811.4	819.0	819.0
25°	4241.7	3778.1	2772.0	1679.6	978.7	797.2	764.4	755.6	776.4	804.8	810.3
27.5°	4144.4	3623.9	2410.1	1240.0	779.7	693.3	692.2	706.4	757.8	812.5	823.4
30°	4077.7	3477.4	2023.0	894.5	653.9	610.2	627.7	658.3	733.7	811.4	832.2
32.5°	4043.8	3369.1	1619.5	692.2	559.9	535.8	565.3	602.5	676.9	749.1	776.4
35°	4070.0	3289.3	1238.9	577.4	494.3	475.7	506.3	542.4	586.1	616.7	637.5
37.5°	4168.5	3257.6	934.9	517.2	449.4	431.9	456.0	476.8	494.3	503.0	512.9
40°	4380.6	3291.5	749.1	486.6	424.3	402.4	412.3	419.9	430.8	439.6	444.0
42.5°	4693.3	3393.2	671.4	474.6	411.2	379.4	377.3	380.5	394.8	411.2	414.4
45°	5130.7	3572.5	665.9	482.2	404.6	360.9	351.0	355.4	377.3	402.4	406.8
47.5°	5689.5	3845.9	709.7	505.2	410.1	351.0	334.6	340.1	367.4	401.3	406.8
50°	6366.4	4227.5	783.0	539.1	434.1	353.2	329.1	332.4	360.9	398.0	403.5
52.5°	7165.8	4768.8	862.8	571.9	459.3	367.4	333.5	325.9	352.1	384.9	391.5
55°	8054.8	5463.2	944.8	601.4	472.4	384.9	342.3	317.1	335.7	363.0	368.5
57.5°	9146.1	6434.2	1086.9	629.9	481.1	396.9	351.0	308.4	314.9	334.6	339.0
60°	10623.4	7807.6	1337.4	676.9	500.8	401.3	349.9	300.7	294.2	305.1	307.3
62.5°	12393.8	9299.2	1546.2	735.9	533.6	404.6	343.4	295.2	276.7	276.7	278.8
65°	13444.7	9698.3	1430.3	785.1	561.0	401.3	335.7	289.8	263.5	251.5	252.6
67.5°	12553.5	8529.4	1225.8	795.0	559.9	386.0	323.7	279.9	250.4	231.8	230.7
69°	11437.0	7359.3	1134.0	768.7	533.6	366.3	308.4	269.0	240.6	220.9	219.8
70°	10537.0	6645.2	1073.8	740.3	505.2	352.1	296.3	259.2	232.9	214.3	212.1
72.5°	7661.1	4354.3	917.5	636.4	416.6	295.2	255.9	227.4	207.8	196.8	194.6
75°	3828.4	2076.6	744.7	516.1	319.3	236.2	210.0	190.3	180.4	178.2	177.1
77.5°	1257.5	951.4	532.5	384.9	237.3	184.8	169.5	155.3	153.1	159.7	157.5
80°	691.1	553.3	337.9	254.8	161.8	135.6	133.4	125.8	129.0	140.0	137.8
82.5°	352.1	287.6	208.9	153.1	109.4	97.3	106.1	101.7	106.1	115.9	114.8
85°	173.9	157.5	132.3	92.9	72.2	62.3	75.5	78.7	80.9	88.6	88.6
87.5°	100.6	92.9	70.0	43.7	36.1	32.8	43.7	42.6	50.3	54.7	53.6
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)