

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: P193501

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193501  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)  
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-AFL-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12291 lumens  
Efficiency: N/A  
Efficacy: 99.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 124  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

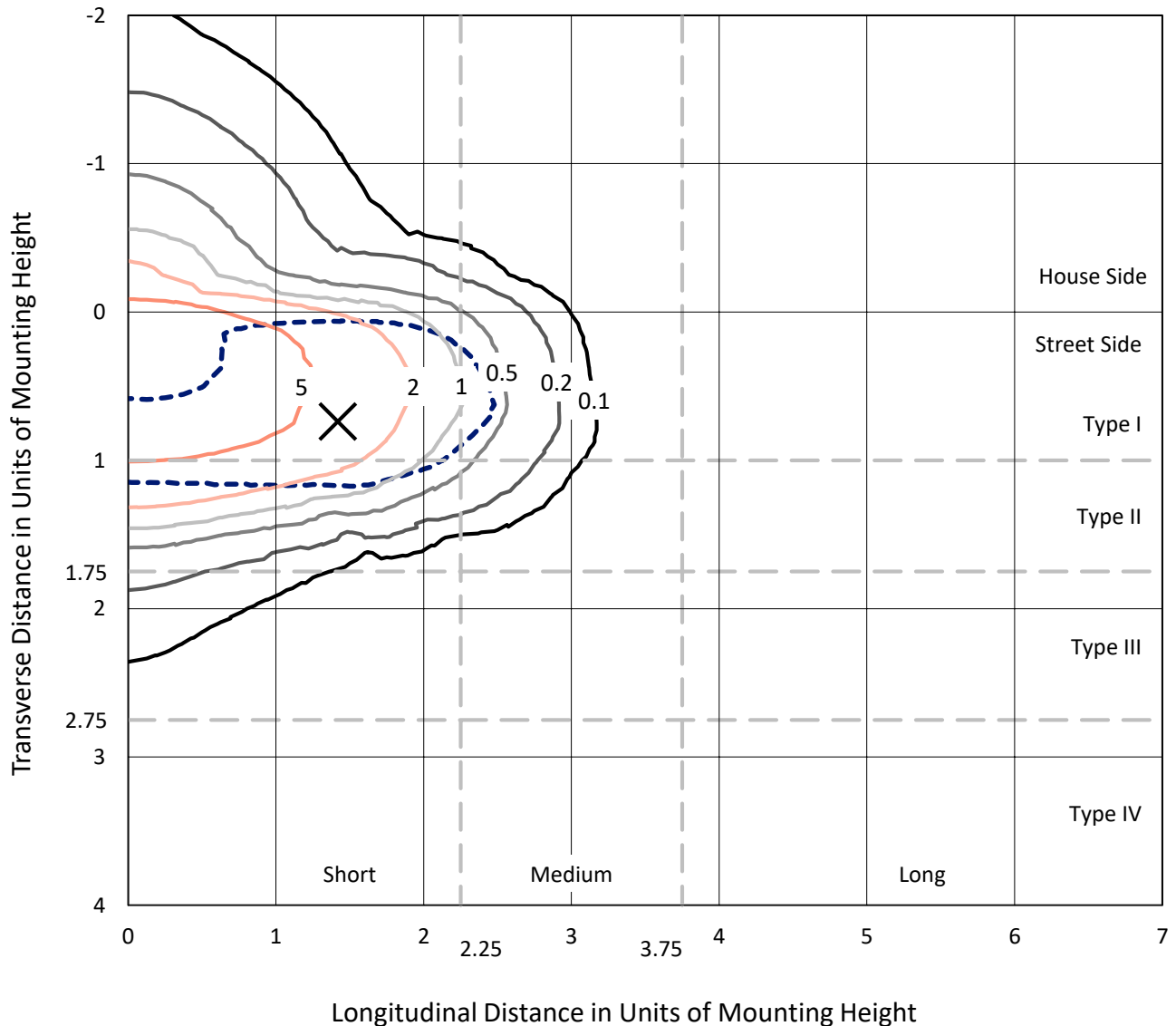


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### Iso-Footcandle Lines of Horizontal Illumination

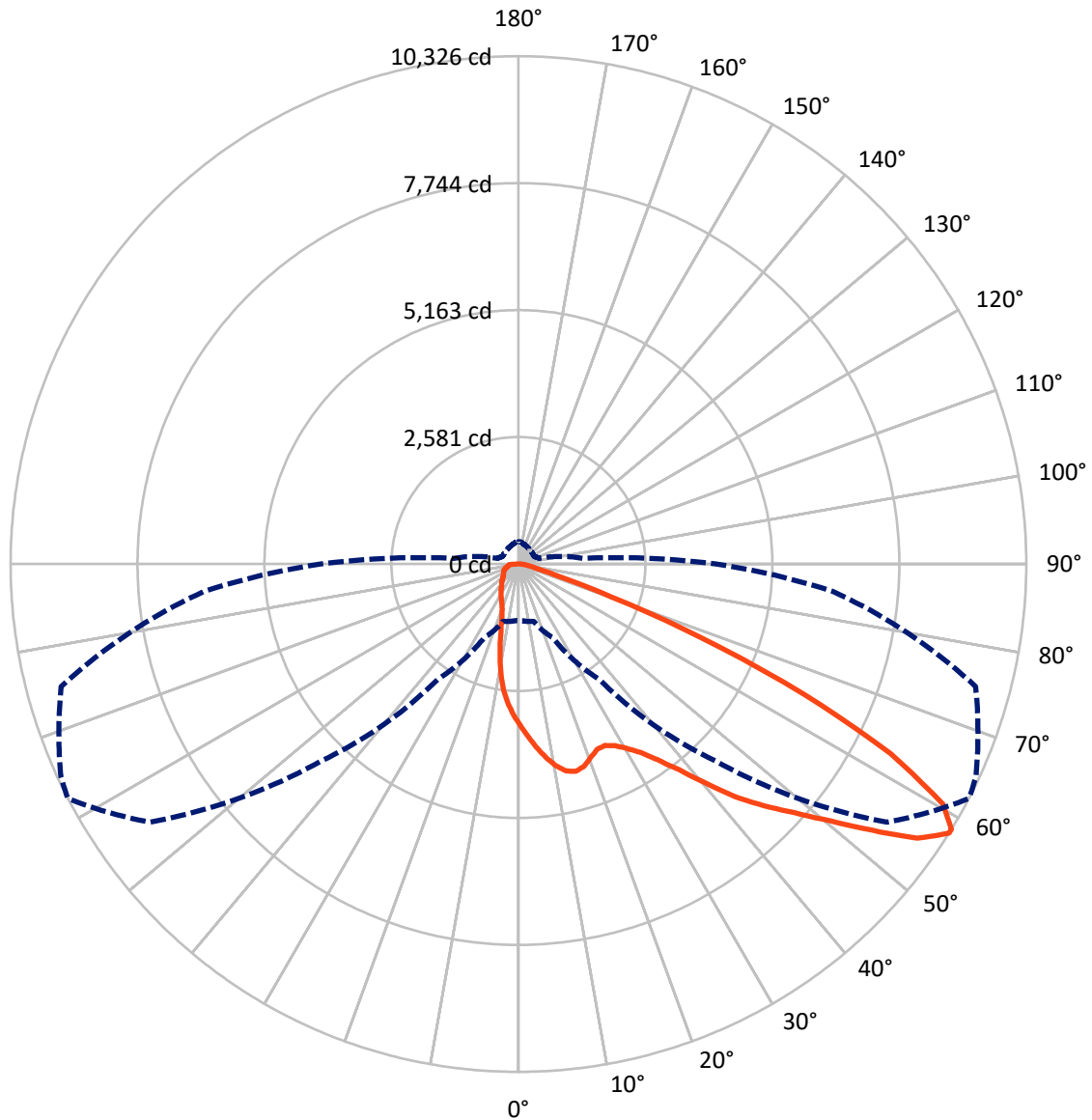
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral    - - - Horizontal Cone Through 58-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1874.4	0.0	1874.4
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	10416.6	0.0	10416.6
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	12291.0	0.0	12291.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.0	2.4
10°-20°	746.4	6.1
20°-30°	1206.5	9.8
30°-40°	1915.4	15.6
40°-50°	2802.6	22.8
50°-60°	2931.3	23.8
60°-70°	1731.8	14.1
70°-80°	487.9	4.0
80°-90°	177.1	1.4
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°	12291.0	100.0
0°-180°	12291.0	100.0



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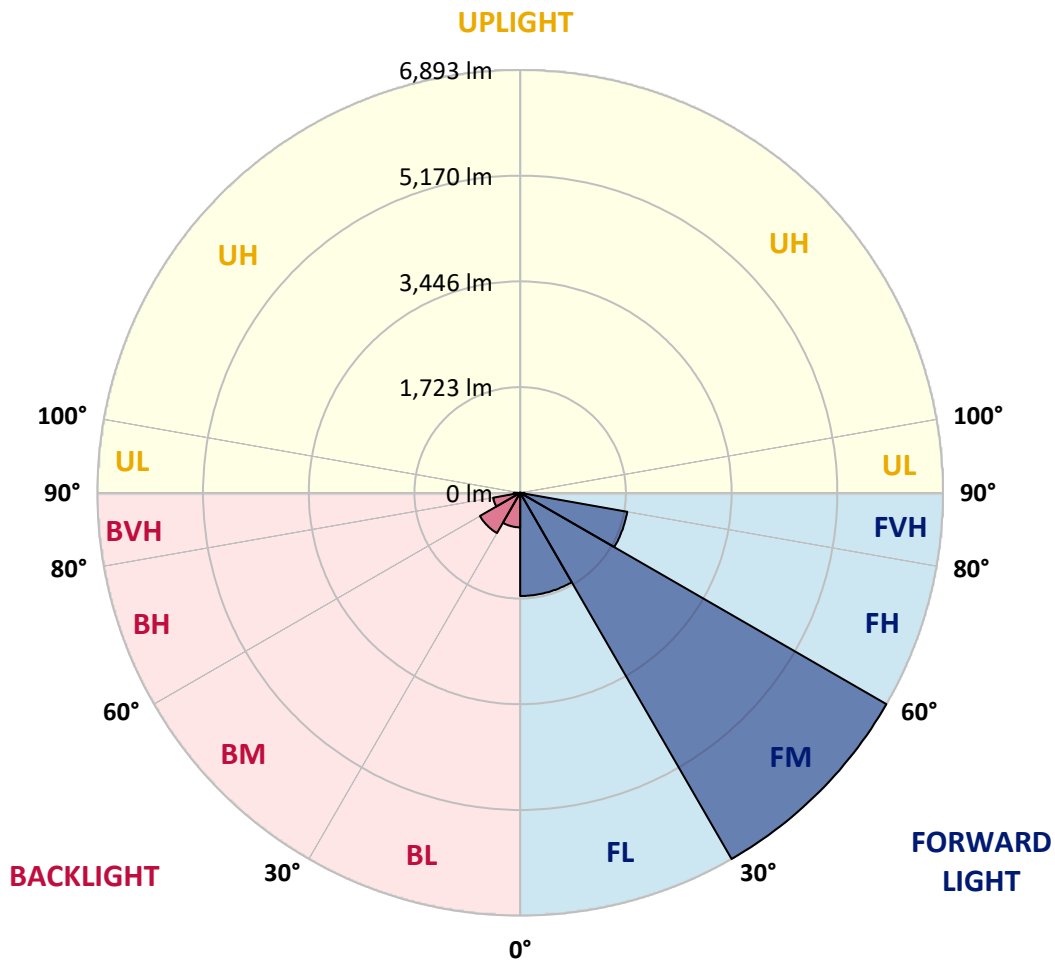
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.6	13.7			
FM	(30°-60°)	6892.7	56.1			
FH	(60°-80°)	1772.4	14.4			G1/1800
FVH	(80°-90°)	69.9	0.6			G1/100
BL	(0°-30°)	563.4	4.6	B2/1000		
BM	(30°-60°)	756.6	6.2	B1/1000		
BH	(60°-80°)	447.3	3.6	B1/500		G1/500
BVH	(80°-90°)	107.2	0.9			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3730.8	3700.7	3681.6	3664.8	3642.8	3595.9	3532.8	3492.9	3472.6	3403.8	3322.2
5°	4096.5	4069.9	4050.2	4027.7	3988.3	3914.8	3813.0	3731.9	3692.0	3554.2	3391.0
7.5°	4010.9	4021.9	4056.0	4115.6	4166.6	4156.7	4065.9	3962.9	3910.2	3718.6	3470.9
10°	3494.6	3513.7	3572.8	3712.2	3938.0	4169.5	4240.1	4168.9	4115.6	3881.2	3553.1
12.5°	3391.0	3390.4	3395.1	3432.1	3566.4	3892.2	4245.9	4317.6	4285.8	4036.4	3637.0
15°	3433.3	3434.4	3431.0	3446.6	3488.3	3617.3	4068.8	4374.9	4397.5	4192.6	3723.8
17.5°	3544.4	3541.5	3528.2	3528.2	3543.2	3593.6	3860.4	4321.7	4425.9	4331.0	3800.2
20°	3730.8	3717.5	3682.1	3649.7	3633.5	3660.7	3774.8	4199.0	4376.7	4451.9	3863.3
22.5°	3956.5	3946.1	3888.8	3819.3	3763.2	3762.6	3818.7	4091.9	4291.6	4565.9	3916.6
25°	4248.2	4231.4	4146.3	4035.2	3936.8	3899.2	3914.8	4086.7	4245.3	4689.8	3964.0
27.5°	4590.8	4560.1	4459.4	4299.1	4154.4	4078.6	4056.0	4181.1	4287.5	4843.2	4030.0
30°	5006.4	4971.1	4842.0	4633.1	4428.8	4304.3	4256.3	4348.3	4427.6	5030.1	4135.9
32.5°	5479.2	5428.3	5279.0	5048.6	4780.1	4590.2	4512.1	4569.4	4632.5	5255.3	4268.4
35°	6132.7	6071.9	5856.0	5538.3	5235.0	4974.0	4849.0	4890.6	4952.0	5590.9	4460.0
37.5°	6578.3	6551.1	6407.6	6108.9	5779.0	5478.7	5285.3	5309.7	5344.4	6010.5	4705.4
40°	6574.3	6585.3	6588.2	6591.1	6366.5	6078.8	5871.1	5845.6	5838.7	6471.3	4984.4
42.5°	6245.0	6290.1	6435.9	6731.7	6868.3	6736.3	6545.9	6472.4	6435.9	7014.1	5280.1
45°	5740.8	5765.1	6038.3	6615.9	7125.3	7387.4	7243.3	7011.8	6945.8	7513.0	5525.5
47.5°	5481.0	5507.6	5679.5	6309.2	7122.4	7913.6	7996.9	7555.9	7437.8	7947.1	5737.4
50°	4862.3	4917.8	5134.3	5775.6	6862.5	8155.5	8784.6	8204.1	7959.9	8369.6	5949.8
52.5°	3726.1	3811.8	4054.3	4898.1	6203.3	8035.7	9414.9	8990.1	8645.1	8807.2	6132.1
55°	2350.4	2414.1	2617.8	3459.3	4962.4	7412.3	9653.9	9840.3	9533.5	9221.6	6290.1
57.5°	1277.9	1306.3	1382.7	1909.9	3227.8	6034.3	9305.5	10324.1	10196.8	9573.5	6409.3
58°	1143.7	1162.8	1210.2	1655.3	2862.6	5657.5	9151.0	10325.9	10262.2	9625.0	6418.6
60°	848.5	838.6	796.4	944.6	1593.4	3908.4	8216.8	9912.6	10099.6	9688.1	6373.4
62.5°	745.5	721.7	635.5	625.7	775.0	1800.6	6287.2	8491.2	8932.8	9328.1	6099.1
65°	700.3	674.8	563.7	527.8	559.1	761.7	3703.6	6368.2	6922.1	8236.5	5397.6
67.5°	666.7	633.8	518.0	468.8	471.1	503.5	1484.6	4010.9	4634.2	6253.6	4198.4
70°	634.3	598.5	479.2	422.5	409.2	398.2	590.3	2007.8	2573.2	3950.1	2676.8
72.5°	599.6	564.3	445.1	386.0	360.0	323.5	385.5	821.3	1147.1	1868.9	1214.3
75°	549.3	517.4	410.9	353.6	316.6	268.0	291.1	428.9	514.5	744.3	585.1
77.5°	487.3	461.3	372.7	327.0	280.7	217.6	224.0	297.5	329.9	426.0	347.8
80°	350.2	359.4	331.6	294.0	250.0	176.5	171.9	217.0	234.4	273.8	226.3
82.5°	246.0	251.2	274.3	240.2	206.6	138.9	126.8	152.8	163.2	180.0	122.1
85°	169.6	163.8	188.1	167.3	149.3	92.6	86.8	103.6	110.0	111.7	63.1
87.5°	101.9	101.9	108.8	89.7	80.4	48.0	46.9	59.0	63.1	60.2	34.7
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°	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9	3264.9
2.5°	3273.5	3232.4	3145.0	3075.0	2986.5	2894.4	2842.9	2787.9	2750.3	2723.1	2766.5
5°	3298.4	3214.5	3033.9	2862.6	2673.3	2476.6	2327.2	2188.3	2091.7	2031.5	2088.2
7.5°	3337.8	3208.7	2921.1	2628.2	2288.5	1960.9	1668.0	1484.6	1377.5	1324.8	1357.8
10°	3382.9	3199.5	2788.5	2310.5	1824.3	1411.6	1192.8	1118.8	1094.5	1084.6	1089.2
12.5°	3420.5	3179.8	2625.9	1926.2	1370.0	1114.7	1051.6	1049.9	1055.1	1056.3	1058.0
15°	3447.2	3150.8	2384.5	1525.6	1095.6	1015.7	1012.3	1022.7	1032.5	1036.6	1038.9
17.5°	3465.1	3091.2	2111.9	1206.2	981.6	967.7	975.8	989.1	999.5	1002.4	1004.7
20°	3463.4	3003.8	1787.2	1005.9	919.7	919.7	933.6	944.0	944.6	941.1	942.8
22.5°	3445.4	2884.0	1472.4	899.4	864.7	874.5	888.4	878.6	838.1	811.4	813.2
25°	3415.3	2741.1	1202.7	831.7	813.8	831.1	827.1	753.0	695.1	669.1	669.1
27.5°	3388.7	2572.1	995.5	772.7	762.8	784.2	712.5	645.3	621.0	608.9	604.8
30°	3369.6	2389.8	857.2	715.9	714.8	699.2	618.1	599.6	595.6	585.7	582.2
32.5°	3374.2	2205.1	768.6	666.2	670.2	598.5	573.0	577.0	573.6	563.1	558.5
35°	3412.4	2029.8	710.7	621.0	608.9	540.6	546.4	553.9	552.7	538.3	533.6
37.5°	3480.7	1863.6	672.5	583.4	531.3	511.6	520.9	532.5	529.6	519.7	516.3
40°	3552.5	1707.4	641.3	553.9	485.6	492.0	500.1	506.4	509.3	512.2	509.9
42.5°	3622.5	1544.2	603.1	523.8	466.5	473.4	476.9	483.3	498.9	509.9	509.3
45°	3664.2	1390.8	563.7	481.0	451.4	455.5	453.2	465.9	485.0	503.0	503.5
47.5°	3710.5	1271.6	532.5	441.6	437.0	439.9	432.9	445.7	463.0	485.0	487.3
50°	3766.6	1200.4	507.6	410.3	417.3	417.3	415.6	427.1	451.4	476.9	481.5
52.5°	3830.3	1186.5	486.7	387.8	397.6	397.0	398.8	416.1	442.8	467.6	471.7
55°	3907.9	1224.1	464.2	371.0	378.5	380.8	386.6	406.3	428.9	457.2	459.0
57.5°	3998.2	1300.5	446.2	357.7	361.2	368.7	377.9	395.9	420.2	451.4	453.2
58°	4013.2	1316.7	443.3	356.5	357.7	366.4	376.8	394.1	418.5	452.6	454.3
60°	4013.8	1370.5	437.0	351.3	344.4	358.8	370.4	387.8	415.6	456.7	460.7
62.5°	3871.4	1370.0	432.3	343.8	330.5	348.4	361.7	382.0	412.7	466.5	474.6
65°	3409.0	1244.9	410.3	332.2	319.5	339.2	354.2	377.9	420.8	509.3	514.5
67.5°	2666.4	1020.4	369.3	316.0	305.0	329.9	349.6	377.4	429.4	519.2	522.6
70°	1762.9	763.4	324.1	297.5	290.0	318.9	351.9	397.0	419.6	498.3	489.1
72.5°	915.0	535.9	287.6	274.3	272.6	309.1	385.5	394.7	409.8	468.8	457.2
75°	480.4	372.2	255.8	248.9	251.8	306.7	454.9	384.3	397.0	448.5	470.5
77.5°	294.0	300.4	228.6	225.7	231.5	299.8	454.3	371.0	378.5	412.7	437.0
80°	196.8	243.7	207.8	208.4	212.4	274.3	408.0	350.2	355.9	390.1	415.0
82.5°	124.4	144.1	188.7	198.5	193.3	226.3	346.7	318.9	327.0	446.2	471.7
85°	63.1	90.3	163.8	191.0	174.2	158.6	281.3	279.5	283.6	321.8	336.3
87.5°	28.9	49.8	127.9	166.7	131.4	99.0	204.3	207.2	223.4	228.6	228.6
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)