

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: P270114

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270114  
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: GWC-AF-02-LED-E1-AFL-7027-1200  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11940 lumens  
Efficiency: N/A  
Efficacy: 92.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 129  
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

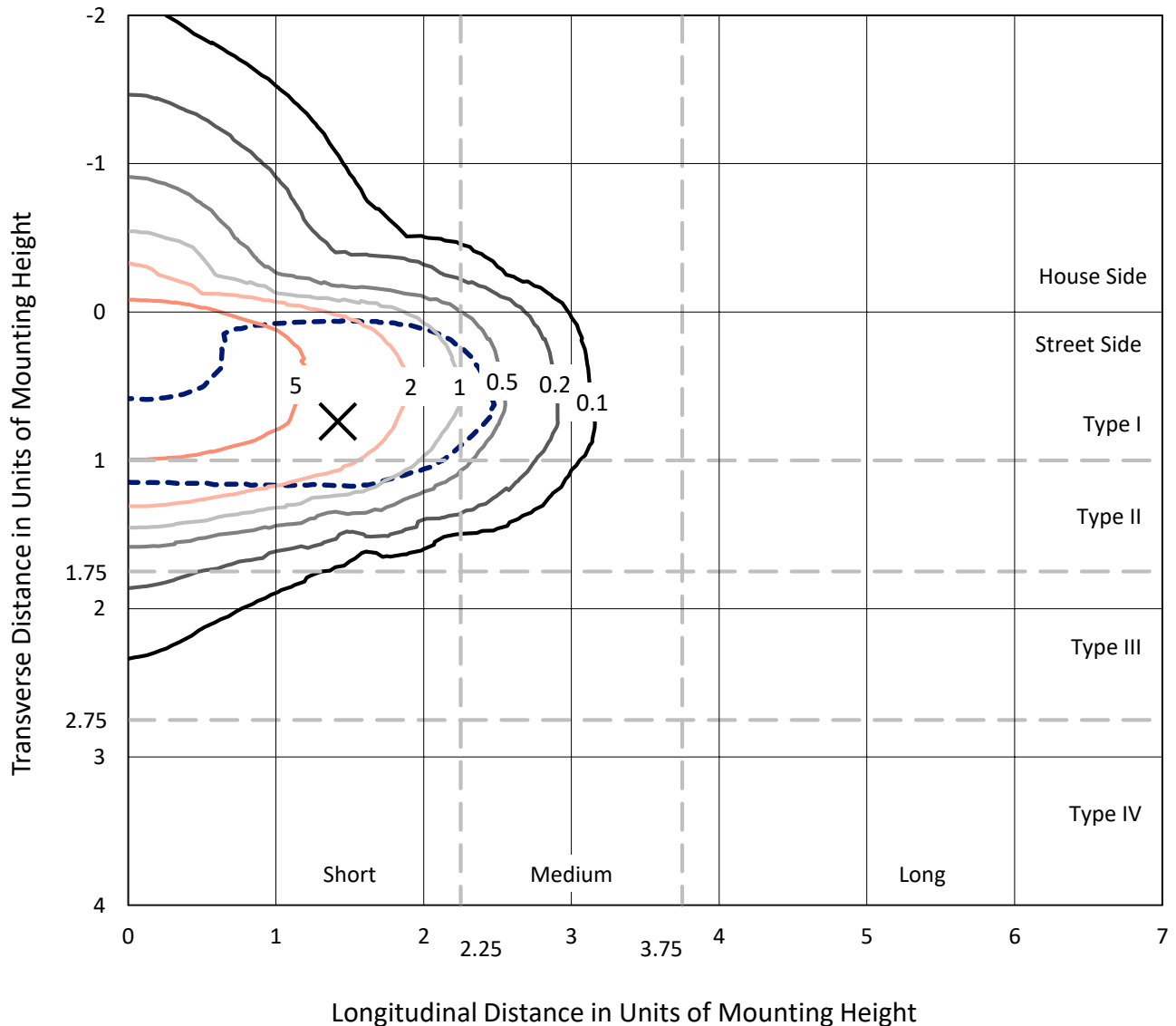


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### Iso-Footcandle Lines of Horizontal Illumination

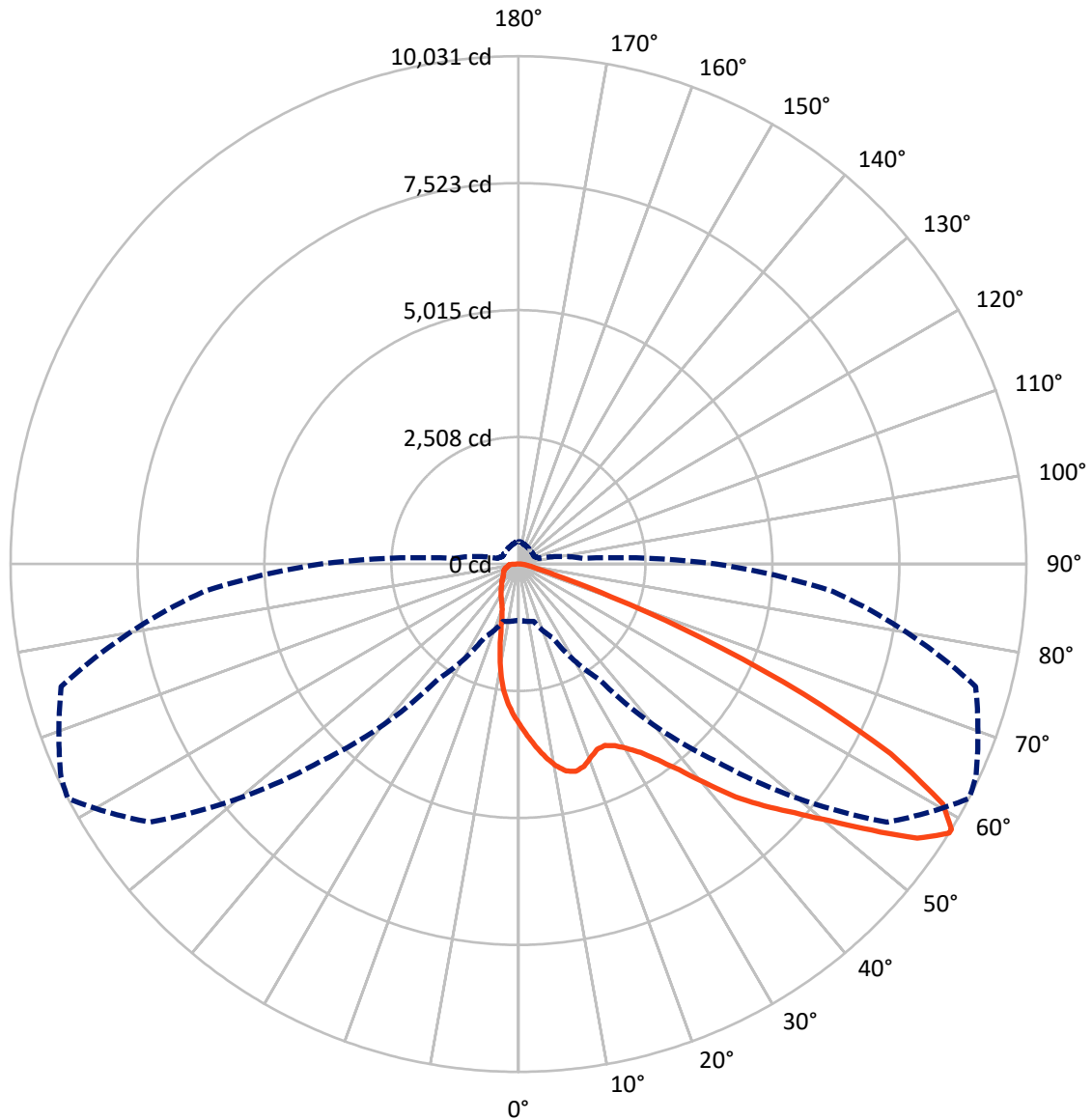
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.7 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	1820.9	0.0	1820.9
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	10119.1	0.0	10119.1
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	11940.0	0.0	11940.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.7	2.4
10°-20°	725.1	6.1
20°-30°	1172.1	9.8
30°-40°	1860.7	15.6
40°-50°	2722.6	22.8
50°-60°	2847.6	23.8
60°-70°	1682.3	14.1
70°-80°	473.9	4.0
80°-90°	172.1	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°	11940.0	100.0
0°-180°	11940.0	100.0



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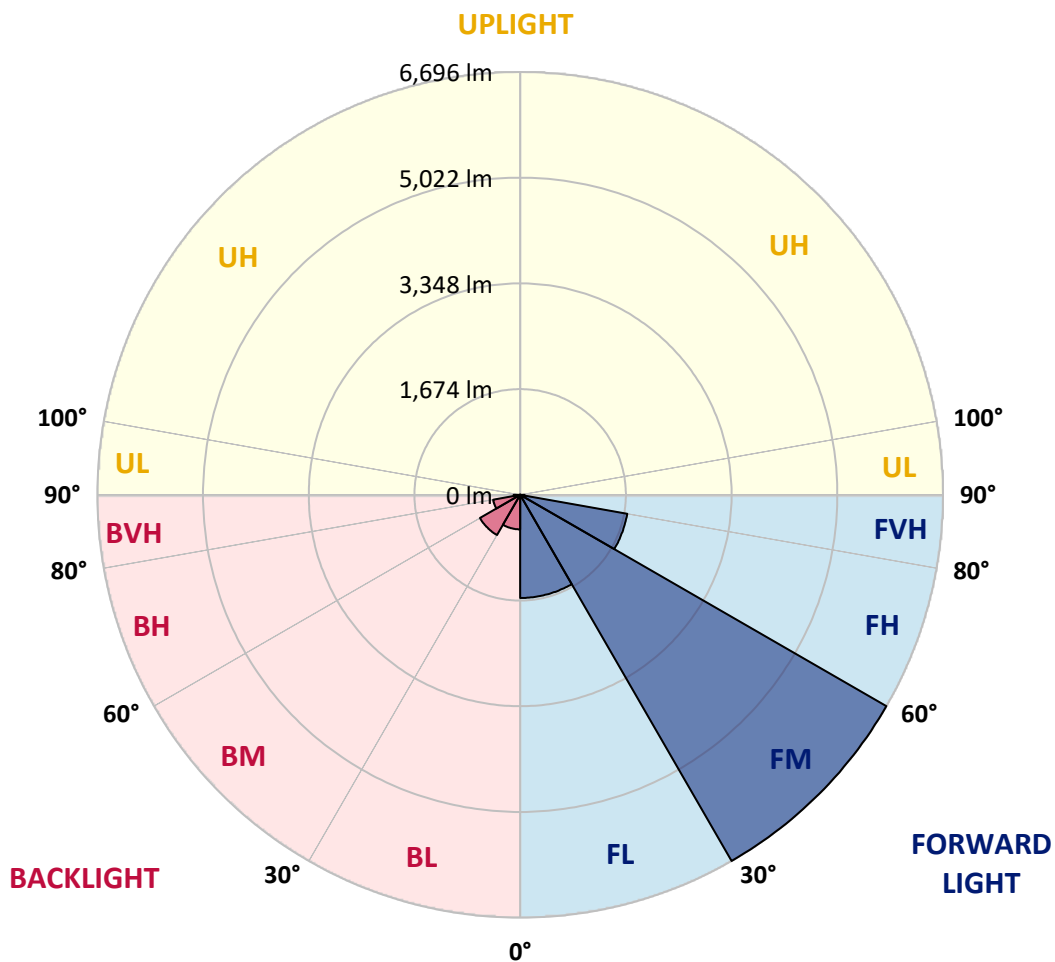
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1633.5	13.7			
FM	(30°-60°)	6695.9	56.1			
FH	(60°-80°)	1721.8	14.4			G1/1800
FVH	(80°-90°)	67.9	0.6			G1/100
BL	(0°-30°)	547.3	4.6	B2/1000		
BM	(30°-60°)	735.0	6.2	B1/1000		
BH	(60°-80°)	434.5	3.6	B1/500		G1/500
BVH	(80°-90°)	104.2	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°	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6
2.5°	3624.2	3595.0	3576.4	3560.1	3538.8	3493.2	3432.0	3393.2	3373.5	3306.6	3227.3
5°	3979.5	3953.6	3934.6	3912.7	3874.5	3803.1	3704.1	3625.3	3586.5	3452.7	3294.2
7.5°	3896.3	3907.1	3940.2	3998.1	4047.6	4038.1	3949.8	3849.6	3798.5	3612.4	3371.8
10°	3394.8	3413.4	3470.8	3606.2	3825.5	4050.5	4119.0	4049.8	3998.1	3770.5	3451.6
12.5°	3294.2	3293.6	3298.1	3334.1	3464.6	3781.1	4124.7	4194.3	4163.4	3921.0	3533.2
15°	3335.2	3336.3	3333.0	3348.1	3388.7	3514.0	3952.6	4250.0	4272.0	4072.9	3617.5
17.5°	3443.1	3440.3	3427.4	3427.4	3442.1	3491.0	3750.2	4198.2	4299.5	4207.3	3691.7
20°	3624.2	3611.4	3577.0	3545.5	3529.8	3556.2	3666.9	4079.1	4251.7	4324.7	3752.9
22.5°	3843.5	3833.3	3777.6	3710.2	3655.7	3655.1	3709.6	3975.1	4169.0	4435.5	3804.7
25°	4126.8	4110.6	4027.9	3919.9	3824.4	3787.8	3803.1	3970.0	4124.0	4555.8	3850.8
27.5°	4459.7	4429.9	4332.1	4176.3	4035.7	3962.2	3940.2	4061.6	4165.1	4704.9	3914.9
30°	4863.4	4829.0	4703.7	4500.7	4302.3	4181.3	4134.7	4224.1	4301.2	4886.4	4017.8
32.5°	5322.7	5273.2	5128.2	4904.4	4643.5	4459.1	4383.2	4438.9	4500.2	5105.2	4146.5
35°	5957.6	5898.5	5688.7	5380.0	5085.5	4832.0	4710.4	4750.9	4810.5	5431.2	4332.6
37.5°	6390.5	6364.0	6224.6	5934.5	5614.0	5322.2	5134.4	5158.0	5191.8	5838.9	4571.0
40°	6386.5	6397.2	6400.0	6402.8	6184.7	5905.3	5703.4	5678.6	5672.0	6286.4	4842.0
42.5°	6066.5	6110.5	6252.1	6539.5	6672.1	6544.0	6358.9	6287.5	6252.1	6813.8	5129.3
45°	5576.9	5600.6	5865.8	6427.0	6921.8	7176.5	7036.4	6811.5	6747.4	7298.5	5367.7
47.5°	5324.4	5350.3	5517.3	6129.0	6918.9	7687.5	7768.5	7340.1	7225.3	7720.1	5573.5
50°	4723.4	4777.4	4987.7	5610.5	6666.5	7922.5	8533.7	7969.9	7732.6	8130.6	5779.8
52.5°	3619.7	3702.9	3938.5	4758.2	6026.1	7806.2	9146.0	8733.3	8398.3	8555.6	5956.9
55°	2283.3	2345.1	2543.0	3360.6	4820.7	7200.6	9378.2	9559.2	9261.3	8958.2	6110.5
57.5°	1241.5	1268.9	1343.1	1855.4	3135.6	5861.9	9039.7	10029.3	9905.6	9300.1	6226.2
58°	1111.0	1129.5	1175.7	1608.1	2780.9	5495.9	8889.6	10030.9	9969.1	9350.1	6235.2
60°	824.3	814.7	773.6	917.5	1547.8	3796.9	7982.2	9629.6	9811.1	9411.4	6191.4
62.5°	724.2	701.1	617.3	607.8	752.9	1749.2	6107.7	8248.7	8677.6	9061.7	5925.0
65°	680.3	655.6	547.6	512.8	543.1	739.9	3597.8	6186.4	6724.4	8001.3	5243.5
67.5°	647.7	615.7	503.1	455.4	457.6	489.2	1442.1	3896.3	4501.9	6075.1	4078.5
70°	616.2	581.3	465.5	410.4	397.5	386.8	573.5	1950.4	2499.7	3837.3	2600.3
72.5°	582.5	548.2	432.4	375.0	349.8	314.2	374.4	797.9	1114.4	1815.5	1179.7
75°	533.6	502.7	399.1	343.5	307.6	260.3	282.8	416.6	499.8	723.0	568.4
77.5°	473.4	448.1	362.1	317.6	272.6	211.4	217.6	289.0	320.5	413.8	337.9
80°	340.2	349.2	322.1	285.6	242.8	171.5	167.0	210.8	227.7	265.9	219.8
82.5°	238.9	244.0	266.5	233.3	200.7	135.0	123.2	148.4	158.6	174.8	118.7
85°	164.7	159.1	182.7	162.5	145.0	89.9	84.4	100.6	106.8	108.5	61.3
87.5°	99.0	99.0	105.7	87.1	78.2	46.7	45.5	57.3	61.3	58.5	33.8
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°	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6	3171.6
2.5°	3180.0	3140.1	3055.2	2987.1	2901.2	2811.8	2761.7	2708.3	2671.7	2645.3	2687.5
5°	3204.3	3122.7	2947.3	2780.9	2597.0	2405.8	2260.8	2125.8	2032.0	1973.5	2028.6
7.5°	3242.4	3117.0	2837.7	2553.2	2223.1	1904.9	1620.4	1442.1	1338.1	1287.0	1319.1
10°	3286.3	3108.0	2708.9	2244.4	1772.3	1371.4	1158.8	1086.8	1063.1	1053.6	1058.1
12.5°	3322.8	3088.9	2550.8	1871.2	1330.8	1082.8	1021.6	1019.9	1025.0	1026.1	1027.8
15°	3348.7	3060.9	2316.4	1482.1	1064.3	986.8	983.4	993.5	1003.0	1007.0	1009.2
17.5°	3366.1	3002.9	2051.6	1171.7	953.6	940.1	948.0	960.9	971.0	973.9	976.0
20°	3364.4	2918.1	1736.2	977.2	893.5	893.5	906.8	917.0	917.5	914.2	915.9
22.5°	3347.1	2801.6	1430.4	873.8	840.0	849.5	863.1	853.5	814.1	788.3	789.9
25°	3317.8	2662.8	1168.3	807.9	790.5	807.4	803.4	731.5	675.3	649.9	649.9
27.5°	3291.9	2498.5	967.0	750.5	741.0	761.9	692.1	626.8	603.3	591.4	587.6
30°	3273.3	2321.5	832.6	695.5	694.4	679.1	600.5	582.5	578.5	569.0	565.6
32.5°	3277.9	2142.2	746.7	647.1	651.1	581.3	556.6	560.5	557.2	547.1	542.6
35°	3315.0	1971.8	690.4	603.3	591.4	525.1	530.7	538.1	536.9	522.8	518.4
37.5°	3381.3	1810.4	653.3	566.7	516.1	497.0	506.1	517.2	514.5	504.9	501.5
40°	3451.0	1658.5	623.0	538.1	471.7	477.9	485.8	492.0	494.8	497.6	495.3
42.5°	3519.1	1500.1	585.9	508.9	453.2	459.9	463.3	469.5	484.6	495.3	494.8
45°	3559.5	1351.1	547.6	467.2	438.6	442.5	440.3	452.6	471.2	488.6	489.2
47.5°	3604.5	1235.3	517.2	428.9	424.5	427.3	420.6	432.9	449.8	471.2	473.4
50°	3659.1	1166.1	493.2	398.7	405.3	405.3	403.7	415.0	438.6	463.3	467.7
52.5°	3721.0	1152.6	472.9	376.7	386.3	385.7	387.3	404.2	430.1	454.3	458.2
55°	3796.3	1189.2	450.9	360.4	367.7	369.9	375.6	394.7	416.6	444.2	445.8
57.5°	3884.0	1263.4	433.5	347.5	350.8	358.2	367.1	384.6	408.2	438.6	440.3
58°	3898.6	1279.1	430.7	346.4	347.5	355.9	366.1	382.9	406.5	439.7	441.3
60°	3899.1	1331.4	424.5	341.3	334.5	348.6	359.8	376.7	403.7	443.7	447.6
62.5°	3760.8	1330.8	420.0	333.9	321.0	338.5	351.4	371.1	400.9	453.2	461.0
65°	3311.6	1209.3	398.7	322.8	310.4	329.5	344.1	367.1	408.7	494.8	499.8
67.5°	2590.3	991.2	358.7	307.0	296.3	320.5	339.6	366.5	417.2	504.3	507.7
70°	1712.6	741.6	314.9	289.0	281.6	309.8	341.8	385.7	407.7	484.1	475.1
72.5°	888.9	520.7	279.5	266.5	264.8	300.3	374.4	383.4	398.1	455.4	444.2
75°	466.7	361.6	248.6	241.8	244.6	298.0	441.9	373.3	385.7	435.8	457.1
77.5°	285.6	291.8	222.2	219.3	224.9	291.3	441.3	360.4	367.7	400.9	424.5
80°	191.2	236.7	201.8	202.4	206.3	266.5	396.3	340.2	345.8	379.0	403.1
82.5°	120.9	140.0	183.3	192.9	187.7	219.8	336.9	309.8	317.6	433.5	458.2
85°	61.3	87.7	159.1	185.5	169.2	154.1	273.3	271.6	275.4	312.6	326.7
87.5°	28.1	48.3	124.2	161.9	127.6	96.1	198.4	201.3	217.0	222.2	222.2
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)