

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: P199938

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199938
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-7030-1200
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13291.7 lumens
Efficiency: N/A
Efficacy: 103.0 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

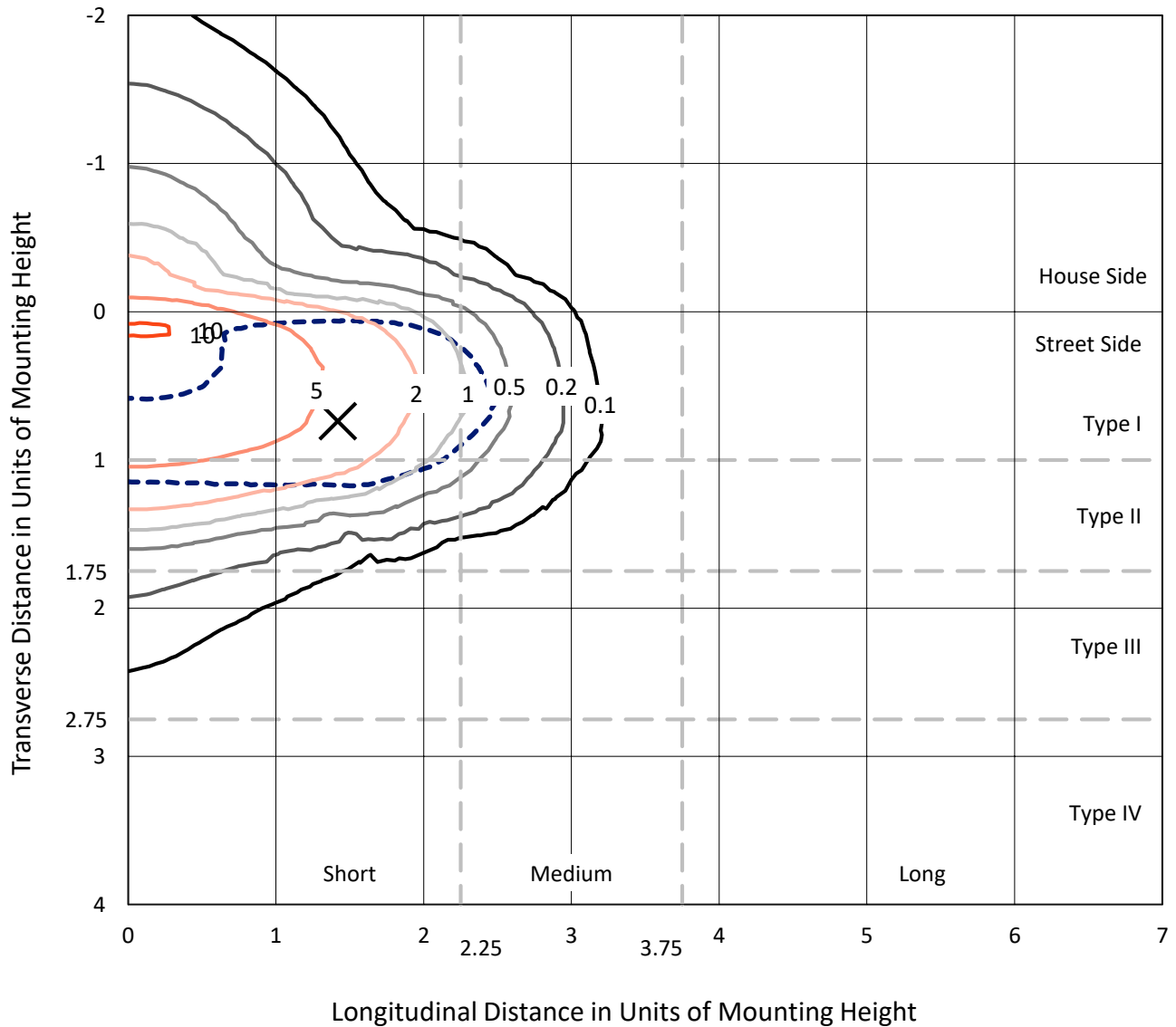
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

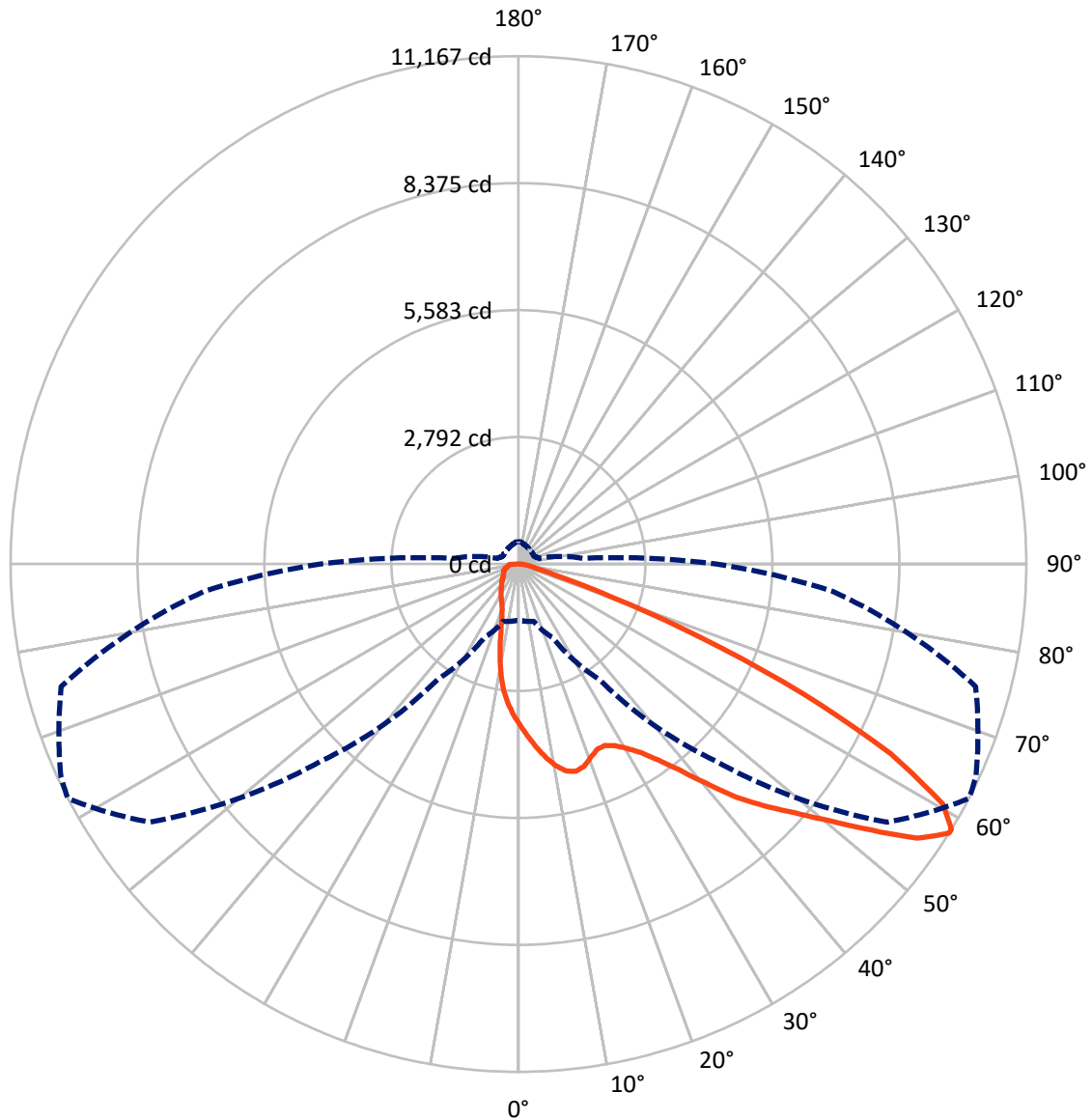
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 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
House Side	Lumens	2027.0	0.0	2027.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	11264.6	0.0	11264.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	13291.7	0.0	13291.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	2.4
10°-20°	807.1	6.1
20°-30°	1304.8	9.8
30°-40°	2071.3	15.6
40°-50°	3030.8	22.8
50°-60°	3169.9	23.8
60°-70°	1872.8	14.1
70°-80°	527.6	4.0
80°-90°	191.5	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°	13291.7	100.0
0°-180°	13291.7	100.0



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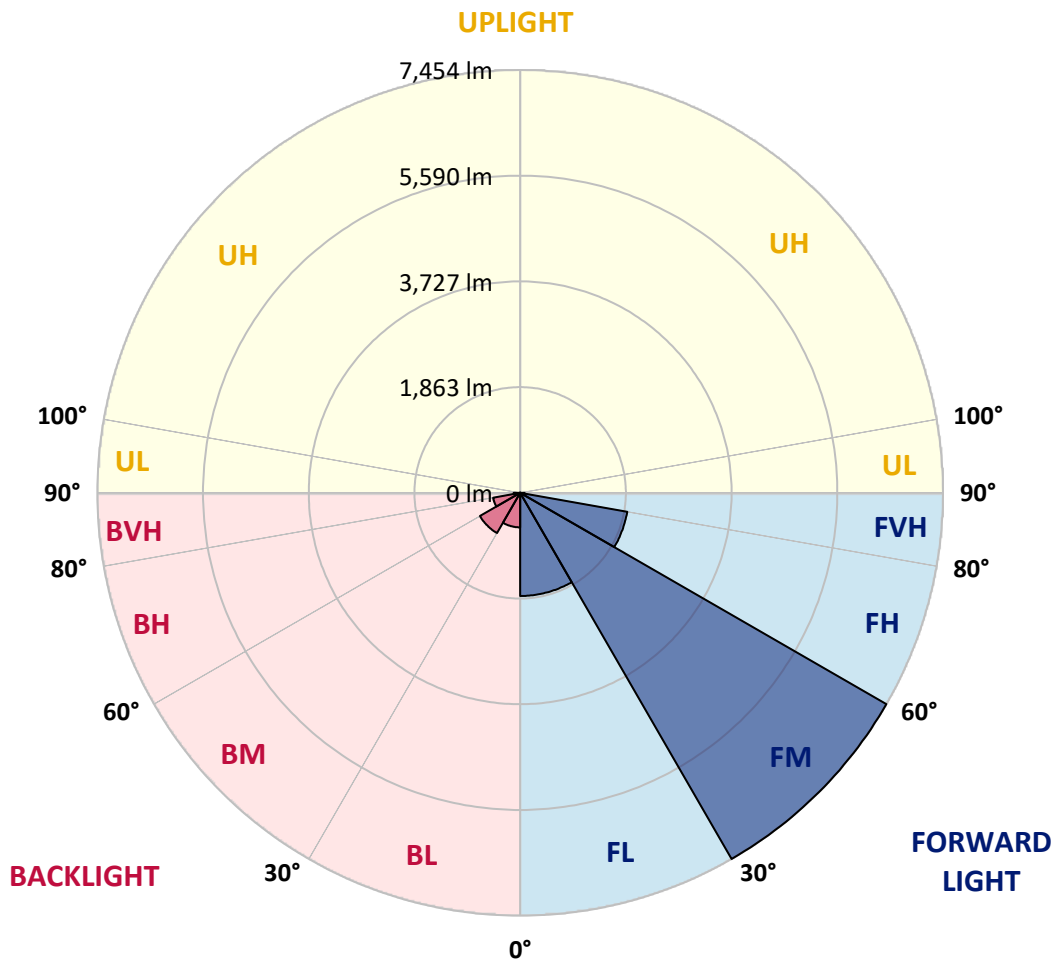
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1818.5	13.7			
FM (30°-60°)	7453.9	56.1			
FH (60°-80°)	1916.7	14.4			G2/5000
FVH (80°-90°)	75.6	0.6			G1/100
BL (0°-30°)	609.2	4.6	B2/1000		
BM (30°-60°)	818.2	6.2	B1/1000		
BH (60°-80°)	483.7	3.6	B1/500		G1/500
BVH (80°-90°)	116.0	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°	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7
2.5°	4034.5	4002.0	3981.3	3963.1	3939.4	3888.7	3820.5	3777.3	3755.4	3680.9	3592.7
5°	4430.0	4401.2	4380.0	4355.6	4313.1	4233.6	4123.4	4035.7	3992.5	3843.6	3667.1
7.5°	4337.4	4349.4	4386.3	4450.7	4505.8	4495.2	4396.9	4285.4	4228.5	4021.3	3753.5
10°	3779.1	3799.8	3863.7	4014.5	4258.6	4509.0	4585.3	4508.3	4450.7	4197.3	3842.4
12.5°	3667.1	3666.5	3671.5	3711.6	3856.8	4209.1	4591.6	4669.1	4634.7	4364.9	3933.2
15°	3712.8	3714.0	3710.3	3727.1	3772.3	3911.8	4400.1	4731.1	4755.6	4534.0	4027.0
17.5°	3832.9	3829.8	3815.4	3815.4	3831.8	3886.2	4174.7	4673.5	4786.2	4683.6	4109.6
20°	4034.5	4020.2	3981.9	3946.9	3929.4	3958.8	4082.0	4540.9	4733.0	4814.3	4177.8
22.5°	4278.6	4267.3	4205.3	4130.2	4069.6	4068.9	4129.6	4425.1	4641.0	4937.6	4235.4
25°	4594.0	4575.9	4483.9	4363.7	4257.3	4216.6	4233.6	4419.4	4590.9	5071.6	4286.7
27.5°	4964.6	4931.4	4822.5	4649.1	4492.6	4410.7	4386.3	4521.4	4636.6	5237.5	4358.1
30°	5414.0	5375.7	5236.2	5010.2	4789.3	4654.7	4602.8	4702.3	4788.1	5439.6	4472.7
32.5°	5925.3	5870.2	5708.8	5459.6	5169.2	4963.9	4879.4	4941.4	5009.7	5683.1	4615.9
35°	6632.0	6566.2	6332.7	5989.1	5661.2	5379.0	5243.7	5288.7	5355.1	6046.1	4823.1
37.5°	7113.9	7084.5	6929.3	6606.3	6249.5	5924.7	5715.7	5741.9	5779.5	6499.9	5088.5
40°	7109.5	7121.4	7124.5	7127.7	6884.8	6573.8	6349.1	6321.5	6314.1	6998.1	5390.2
42.5°	6753.3	6802.2	6959.9	7279.8	7427.4	7284.8	7078.8	6999.3	6959.9	7585.2	5710.0
45°	6208.3	6234.6	6529.9	7154.6	7705.4	7988.9	7833.0	7582.6	7511.3	8124.7	5975.4
47.5°	5927.2	5956.0	6141.9	6822.8	7702.2	8557.8	8647.9	8171.0	8043.3	8594.1	6204.5
50°	5258.1	5318.2	5552.3	6245.7	7421.2	8819.4	9499.8	8872.1	8608.0	9051.0	6434.1
52.5°	4029.5	4122.1	4384.4	5296.9	6708.3	8689.9	10181.4	9722.0	9349.0	9524.2	6631.3
55°	2541.8	2610.6	2830.9	3741.0	5366.4	8015.8	10439.9	10641.4	10309.7	9972.3	6802.2
57.5°	1382.0	1412.6	1495.2	2065.4	3490.6	6525.5	10063.1	11164.7	11027.0	10352.9	6931.1
58°	1236.8	1257.4	1308.8	1790.1	3095.7	6118.1	9896.0	11166.5	11097.7	10408.6	6941.1
60°	917.6	906.9	861.2	1021.4	1723.0	4226.7	8885.8	10719.7	10921.8	10476.8	6892.3
62.5°	806.2	780.5	687.2	676.6	838.1	1947.2	6799.1	9182.5	9660.0	10087.5	6595.7
65°	757.3	729.8	609.6	570.8	604.6	823.7	4005.1	6886.7	7485.7	8907.1	5837.1
67.5°	721.0	685.4	560.1	507.0	509.4	544.6	1605.4	4337.4	5011.5	6762.8	4540.2
70°	686.0	647.1	518.2	456.9	442.5	430.6	638.4	2171.2	2782.7	4271.7	2894.7
72.5°	648.4	610.3	481.3	417.5	389.4	349.8	416.8	888.2	1240.6	2021.0	1313.2
75°	594.0	559.6	444.3	382.4	342.4	289.8	314.8	463.8	556.4	804.9	632.7
77.5°	527.0	498.8	403.1	353.6	303.5	235.3	242.2	321.7	356.8	460.7	376.1
80°	378.7	388.7	358.6	317.9	270.3	190.9	185.9	234.7	253.5	296.0	244.7
82.5°	266.0	271.6	296.7	259.7	223.4	150.3	137.1	165.2	176.5	194.6	132.1
85°	183.3	177.1	203.4	180.9	161.4	100.1	93.9	112.0	118.9	120.8	68.2
87.5°	110.2	110.2	117.7	97.0	87.0	52.0	50.7	63.8	68.2	65.1	37.6
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°	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7	3530.7
2.5°	3540.0	3495.6	3401.1	3325.3	3229.6	3130.1	3074.4	3014.9	2974.2	2944.8	2991.7
5°	3567.0	3476.2	3281.0	3095.7	2891.0	2678.2	2516.7	2366.5	2262.0	2196.9	2258.2
7.5°	3609.5	3469.9	3158.9	2842.2	2474.8	2120.5	1803.8	1605.4	1489.6	1432.7	1468.4
10°	3658.3	3459.9	3015.6	2498.5	1972.9	1526.6	1290.0	1209.8	1183.5	1172.9	1177.9
12.5°	3699.0	3438.6	2839.6	2083.0	1481.5	1205.4	1137.2	1135.4	1141.0	1142.3	1144.1
15°	3727.8	3407.4	2578.6	1649.9	1184.8	1098.5	1094.7	1106.0	1116.6	1121.0	1123.5
17.5°	3747.2	3342.8	2283.9	1304.4	1061.5	1046.5	1055.3	1069.7	1080.9	1084.1	1086.5
20°	3745.3	3248.4	1932.8	1087.8	994.6	994.6	1009.5	1020.8	1021.4	1017.7	1019.6
22.5°	3726.0	3118.8	1592.3	972.7	935.1	945.7	960.8	950.1	906.3	877.5	879.3
25°	3693.4	2964.2	1300.6	899.4	880.0	898.8	894.4	814.3	751.7	723.5	723.5
27.5°	3664.6	2781.4	1076.5	835.5	824.9	848.1	770.4	697.8	671.6	658.4	654.1
30°	3643.9	2584.3	926.9	774.2	773.0	756.0	668.5	648.4	644.0	633.4	629.6
32.5°	3649.0	2384.7	831.2	720.4	724.8	647.1	619.6	624.0	620.3	609.0	604.0
35°	3690.3	2195.0	768.6	671.6	658.4	584.6	590.8	599.0	597.7	582.0	577.1
37.5°	3764.1	2015.4	727.3	630.9	574.5	553.3	563.4	575.8	572.7	562.1	558.3
40°	3841.7	1846.3	693.5	599.0	525.1	532.0	540.8	547.7	550.8	553.9	551.4
42.5°	3917.5	1669.9	652.2	566.5	504.5	512.0	515.8	522.6	539.5	551.4	550.8
45°	3962.5	1504.0	609.6	520.1	488.2	492.6	490.1	503.8	524.5	543.9	544.6
47.5°	4012.6	1375.1	575.8	477.5	472.6	475.7	468.2	481.9	500.7	524.5	527.0
50°	4073.3	1298.1	549.0	443.8	451.2	451.2	449.4	462.0	488.2	515.8	520.7
52.5°	4142.2	1283.1	526.4	419.3	430.0	429.4	431.2	450.0	478.8	505.7	510.1
55°	4226.1	1323.8	501.9	401.2	409.3	411.8	418.1	439.4	463.8	494.5	496.3
57.5°	4323.7	1406.4	482.6	386.8	390.5	398.7	408.7	428.1	454.4	488.2	490.1
58°	4339.9	1423.9	479.5	385.6	386.8	396.2	407.5	426.2	452.5	489.5	491.3
60°	4340.5	1482.1	472.6	379.9	372.4	388.1	400.5	419.3	449.4	493.9	498.3
62.5°	4186.6	1481.5	467.5	371.7	357.3	376.8	391.2	413.1	446.3	504.5	513.2
65°	3686.5	1346.2	443.8	359.3	345.5	366.8	383.0	408.7	455.0	550.8	556.4
67.5°	2883.5	1103.4	399.3	341.8	329.8	356.8	378.1	408.0	464.4	561.4	565.2
70°	1906.5	825.5	350.5	321.7	313.5	344.9	380.5	429.4	453.8	538.9	528.9
72.5°	989.5	579.6	311.1	296.7	294.8	334.3	416.8	426.8	443.2	507.0	494.5
75°	519.5	402.5	276.7	269.2	272.3	331.7	491.9	415.6	429.4	485.1	508.9
77.5°	317.9	324.8	247.3	244.1	250.4	324.3	491.3	401.2	409.3	446.3	472.6
80°	212.8	263.5	224.7	225.3	229.7	296.7	441.2	378.7	384.9	421.9	448.7
82.5°	134.6	155.8	204.1	214.7	209.0	244.7	375.0	344.9	353.6	482.6	510.1
85°	68.2	97.6	177.1	206.5	188.4	171.5	304.2	302.4	306.6	348.0	363.7
87.5°	31.3	53.8	138.3	180.2	142.1	107.0	220.9	224.1	241.6	247.3	247.3
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)