

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: P529241

Luminaire Tested: **GALN-SA4B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529241
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12344 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

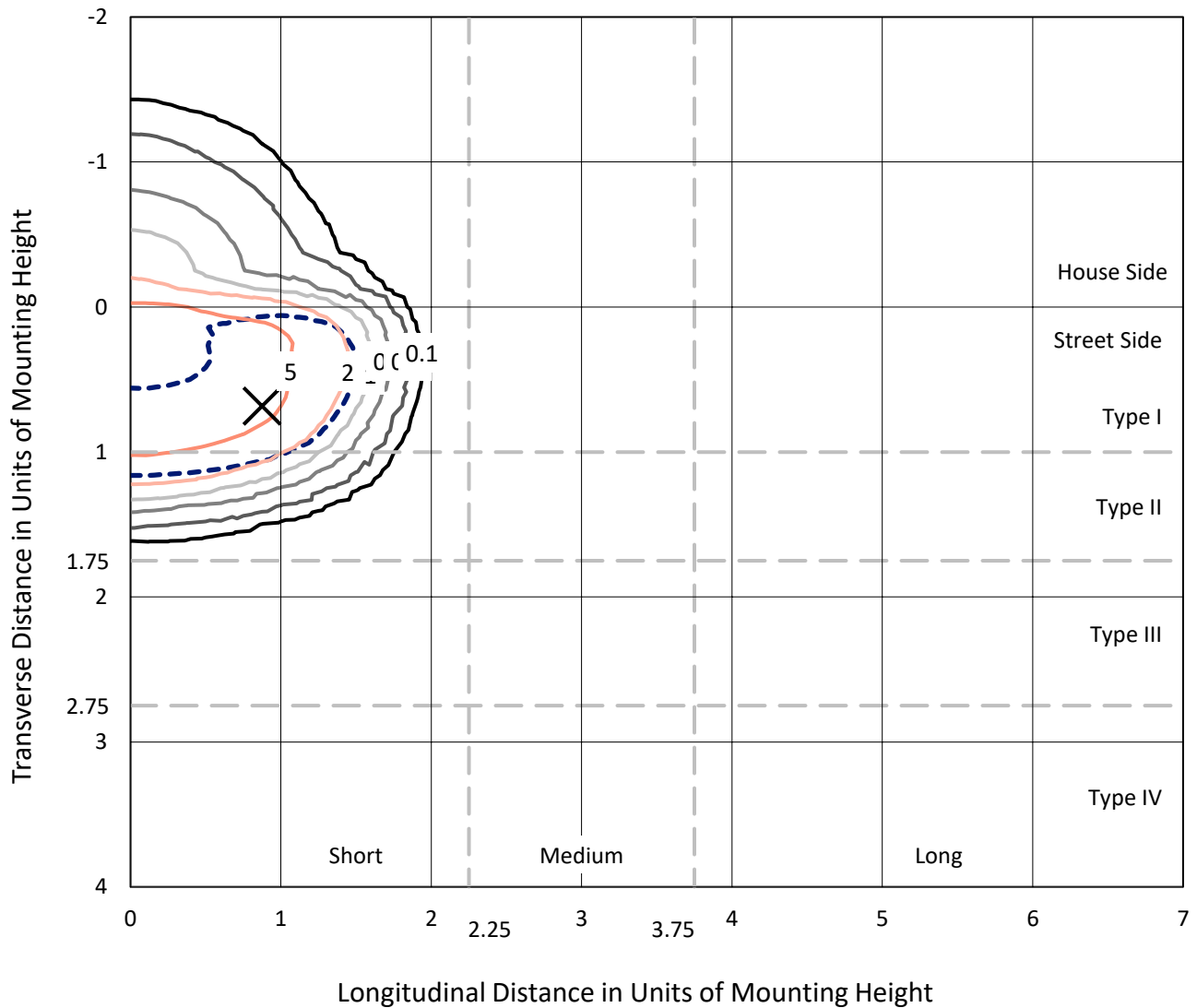
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

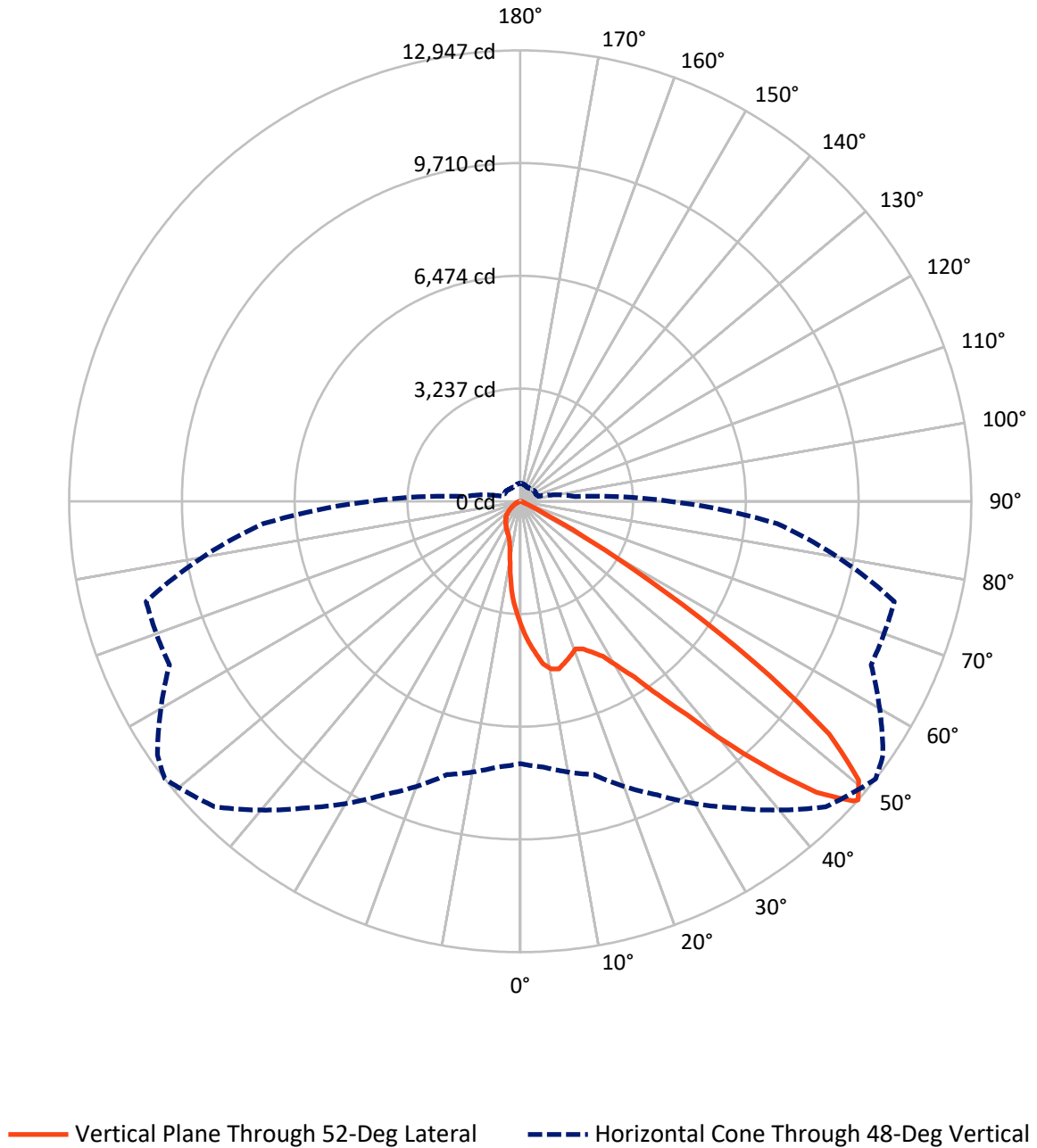
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1503.0	0.0	1503.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10841.0	0.0	10841.0
	% Fixture	87.8	0.0	87.8
Total	Lumens	12344.0	0.0	12344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	2.6
10°-20°	852.7	6.9
20°-30°	1455.9	11.8
30°-40°	2681.0	21.7
40°-50°	4163.6	33.7
50°-60°	2505.8	20.3
60°-70°	289.8	2.3
70°-80°	56.1	0.5
80°-90°	13.0	0.1
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°	12344.0	100.0
0°-180°	12344.0	100.0

Coefficient of Utilization

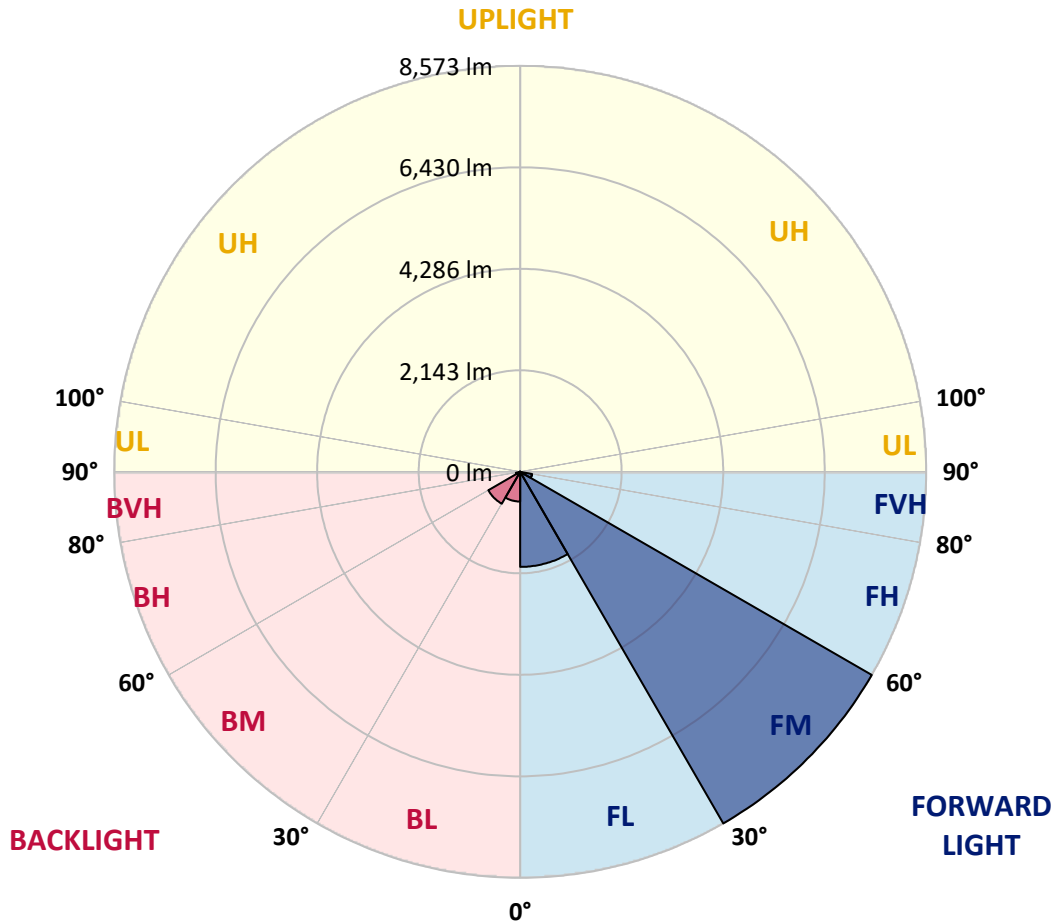


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2007.0	16.3			
FM (30°-60°)	8572.7	69.4			
FH (60°-80°)	255.2	2.1			G0/660
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	627.8	5.1	B2/1000		
BM (30°-60°)	777.6	6.3	B1/1000		
BH (60°-80°)	90.7	0.7	B0/110		G0/110
BVH (80°-90°)	6.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7
2.5°	4320.5	4221.5	4230.5	4165.8	4128.0	4066.8	3984.0	3967.8	3877.8	3755.5	3631.3
5°	4709.2	4685.8	4716.4	4622.8	4626.4	4525.7	4331.3	4334.9	4128.0	3928.2	3735.7
7.5°	4734.4	4680.4	4711.0	4793.8	4842.4	4824.4	4714.6	4619.2	4423.1	4129.8	3849.1
10°	4239.5	4342.1	4374.5	4511.3	4705.6	4910.7	4898.1	4903.5	4739.8	4356.5	3946.2
12.5°	3942.6	3874.3	3984.0	4066.8	4360.1	4757.8	4939.5	4979.1	4991.7	4576.0	4043.4
15°	3807.7	3807.7	3825.7	3849.1	4061.4	4428.5	4799.2	4914.3	5186.1	4864.0	4196.4
17.5°	3892.2	3888.6	3913.8	3865.3	3944.4	4226.9	4669.6	4801.0	5403.8	5146.5	4316.9
20°	4149.6	4162.2	4146.0	4005.6	4011.0	4223.3	4525.7	4732.6	5551.4	5391.2	4477.1
22.5°	4507.7	4514.9	4423.1	4270.1	4225.1	4329.5	4608.4	4766.8	5670.1	5684.5	4525.7
25°	4921.5	4892.7	4874.8	4658.8	4522.1	4612.0	4795.6	4887.3	5743.9	5936.4	4664.2
27.5°	5495.6	5438.0	5328.2	5135.7	5034.9	4907.1	5038.5	5189.7	5954.4	6289.1	4815.4
30°	6343.1	6292.7	6078.6	5830.3	5565.7	5439.8	5481.2	5563.9	6334.1	6697.6	5015.1
32.5°	7618.9	7512.8	7203.3	6730.0	6370.1	6022.8	6012.0	6100.2	6674.2	7262.6	5252.6
35°	9024.3	8991.9	8536.7	8049.0	7352.6	6816.4	6825.4	6872.2	7325.6	8004.0	5563.9
37.5°	9958.2	10136.4	9846.7	9323.0	8738.2	7971.6	7777.3	7793.5	8220.0	8882.2	6125.4
40°	10679.8	10528.7	10562.9	10440.5	10041.0	9519.2	9089.1	9004.5	9254.7	9853.9	6683.2
42.5°	10364.9	10372.1	10582.7	10872.4	10971.3	10933.6	10494.5	10334.3	10140.0	10649.2	7214.1
45°	9476.0	9661.3	9934.9	10701.4	11374.4	12006.0	11919.7	11653.3	10751.8	11279.1	7520.0
47.5°	8058.0	8050.8	8498.9	9495.8	10991.1	12470.3	12862.6	12675.4	11185.5	11208.9	7457.0
48°	7534.4	7663.9	8126.4	9299.6	10748.2	12401.9	12947.2	12711.4	11111.7	11115.3	7403.0
50°	5569.3	5546.0	6121.8	7561.4	9600.2	11653.3	12590.9	12774.4	11109.9	10642.0	7025.1
52.5°	2942.1	3042.9	3462.2	4754.2	6787.6	9537.2	11106.3	11392.4	10717.6	9868.3	6481.7
55°	1250.6	1130.1	1452.2	2146.8	3818.5	6371.9	8148.0	8785.0	9062.1	8732.8	5670.1
57.5°	446.3	487.7	561.4	808.0	1605.1	3487.4	4858.6	5353.4	6278.3	6407.9	3863.5
60°	286.1	291.5	314.9	370.7	602.8	1344.2	2305.1	2699.2	3118.5	3219.2	1803.1
62.5°	221.3	223.1	233.9	242.9	286.1	521.8	865.5	1025.7	1065.3	915.9	473.3
65°	185.3	187.1	190.7	190.7	203.3	244.7	302.3	332.9	323.9	320.3	268.1
67.5°	142.2	145.8	153.0	153.0	160.2	149.4	167.4	178.1	201.5	244.7	228.5
70°	111.6	113.4	118.8	122.4	122.4	108.0	120.6	131.4	147.6	181.7	179.9
72.5°	86.4	90.0	93.6	93.6	88.2	73.8	86.4	95.4	106.2	126.0	122.4
75°	66.6	66.6	68.4	55.8	43.2	37.8	52.2	63.0	79.2	82.8	68.4
77.5°	18.0	19.8	18.0	16.2	18.0	27.0	34.2	39.6	50.4	50.4	45.0
80°	0.0	1.8	5.4	10.8	18.0	25.2	30.6	34.2	39.6	43.2	41.4
82.5°	0.0	1.8	5.4	10.8	16.2	19.8	27.0	28.8	32.4	37.8	37.8
85°	0.0	1.8	3.6	7.2	10.8	12.6	12.6	10.8	10.8	9.0	7.2
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	5.4	5.4	5.4	5.4	5.4
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°	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7	3564.7
2.5°	3582.7	3527.0	3442.4	3309.2	3181.5	3098.7	3019.5	2931.3	2882.7	2879.1	2852.2
5°	3625.9	3500.0	3298.4	3069.9	2825.2	2614.6	2402.3	2263.7	2139.6	2071.2	2058.6
7.5°	3649.3	3485.6	3159.9	2776.6	2359.1	2015.4	1777.9	1603.3	1534.9	1484.6	1482.8
10°	3697.9	3460.4	2952.9	2387.9	1871.4	1524.1	1360.4	1281.2	1243.4	1229.0	1207.4
12.5°	3733.9	3413.6	2740.6	1988.4	1479.2	1263.2	1191.2	1173.3	1175.1	1182.2	1173.3
15°	3784.3	3372.2	2454.5	1632.1	1241.6	1137.3	1137.3	1140.9	1166.1	1169.7	1167.9
17.5°	3780.7	3291.2	2159.4	1344.2	1097.7	1083.3	1088.7	1122.9	1139.1	1144.5	1131.9
20°	3823.9	3215.6	1855.2	1148.1	1016.7	1038.3	1074.3	1083.3	1103.1	1106.7	1092.3
22.5°	3811.3	3026.7	1572.7	993.3	955.5	996.9	1032.9	1043.7	1038.3	1027.5	1025.7
25°	3787.9	2864.7	1313.6	890.7	910.5	955.5	989.7	969.9	959.1	960.9	962.7
27.5°	3746.5	2659.6	1099.5	818.8	849.3	915.9	914.1	906.9	917.7	908.7	917.7
30°	3739.3	2454.5	923.1	754.0	804.4	852.9	856.5	869.1	881.7	865.5	881.7
32.5°	3750.1	2229.5	797.2	714.4	777.4	779.2	818.8	831.4	822.4	786.4	790.0
35°	3832.9	2056.8	705.4	692.8	734.2	736.0	773.8	757.6	718.0	696.4	709.0
37.5°	4007.4	1912.8	662.2	673.0	676.6	700.0	701.8	669.4	673.0	671.2	678.4
40°	4230.5	1803.1	631.6	655.0	651.4	667.6	602.8	620.8	637.0	642.4	646.0
42.5°	4383.5	1723.9	611.8	626.2	619.0	590.2	554.2	572.2	584.8	604.6	608.2
45°	4451.9	1660.9	588.4	575.8	575.8	523.6	509.2	512.8	541.6	563.2	559.6
47.5°	4340.3	1599.7	547.0	509.2	521.8	478.7	462.5	462.5	493.1	520.0	514.6
48°	4297.1	1574.5	548.8	494.9	503.9	471.5	455.3	451.7	485.9	511.0	511.0
50°	4083.0	1481.0	502.1	455.3	437.3	433.7	422.9	426.5	448.1	471.5	471.5
52.5°	3665.5	1279.4	424.7	390.5	358.1	379.7	385.1	377.9	388.7	410.3	408.5
55°	3059.1	982.5	340.1	323.9	298.7	322.1	332.9	323.9	313.1	329.3	329.3
57.5°	1959.6	529.0	271.7	275.3	250.1	273.5	282.5	260.9	241.1	253.7	251.9
60°	883.5	316.7	223.1	217.7	201.5	228.5	242.9	217.7	190.7	199.7	208.7
62.5°	331.1	224.9	169.1	165.6	162.0	187.1	194.3	174.5	147.6	153.0	154.8
65°	242.9	197.9	135.0	122.4	129.6	147.6	144.0	124.2	106.2	106.2	109.8
67.5°	206.9	172.7	109.8	95.4	95.4	97.2	90.0	79.2	73.8	77.4	81.0
70°	162.0	136.8	86.4	73.8	66.6	59.4	52.2	50.4	45.0	50.4	48.6
72.5°	104.4	91.8	66.6	55.8	50.4	41.4	34.2	32.4	27.0	25.2	25.2
75°	55.8	55.8	52.2	45.0	39.6	32.4	27.0	21.6	14.4	10.8	10.8
77.5°	39.6	43.2	46.8	43.2	36.0	27.0	21.6	14.4	7.2	3.6	3.6
80°	37.8	43.2	46.8	41.4	36.0	27.0	19.8	10.8	5.4	1.8	1.8
82.5°	34.2	39.6	43.2	37.8	32.4	23.4	18.0	10.8	5.4	1.8	1.8
85°	7.2	9.0	10.8	10.8	12.6	16.2	12.6	9.0	3.6	1.8	1.8
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	1.8
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)