

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: P528826

Luminaire Tested: **GALN-SA4A-722-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528826
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-722-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12000 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

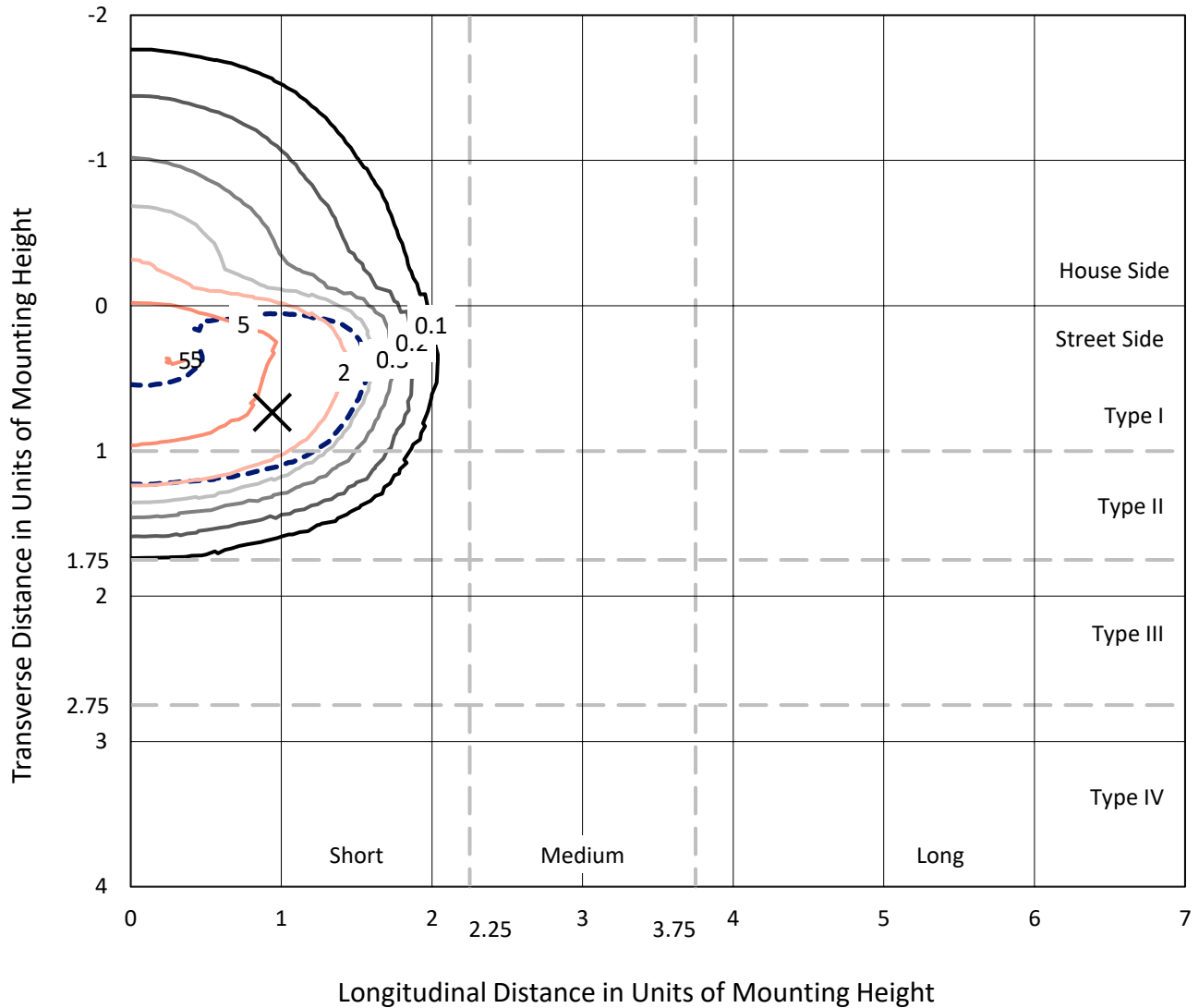
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

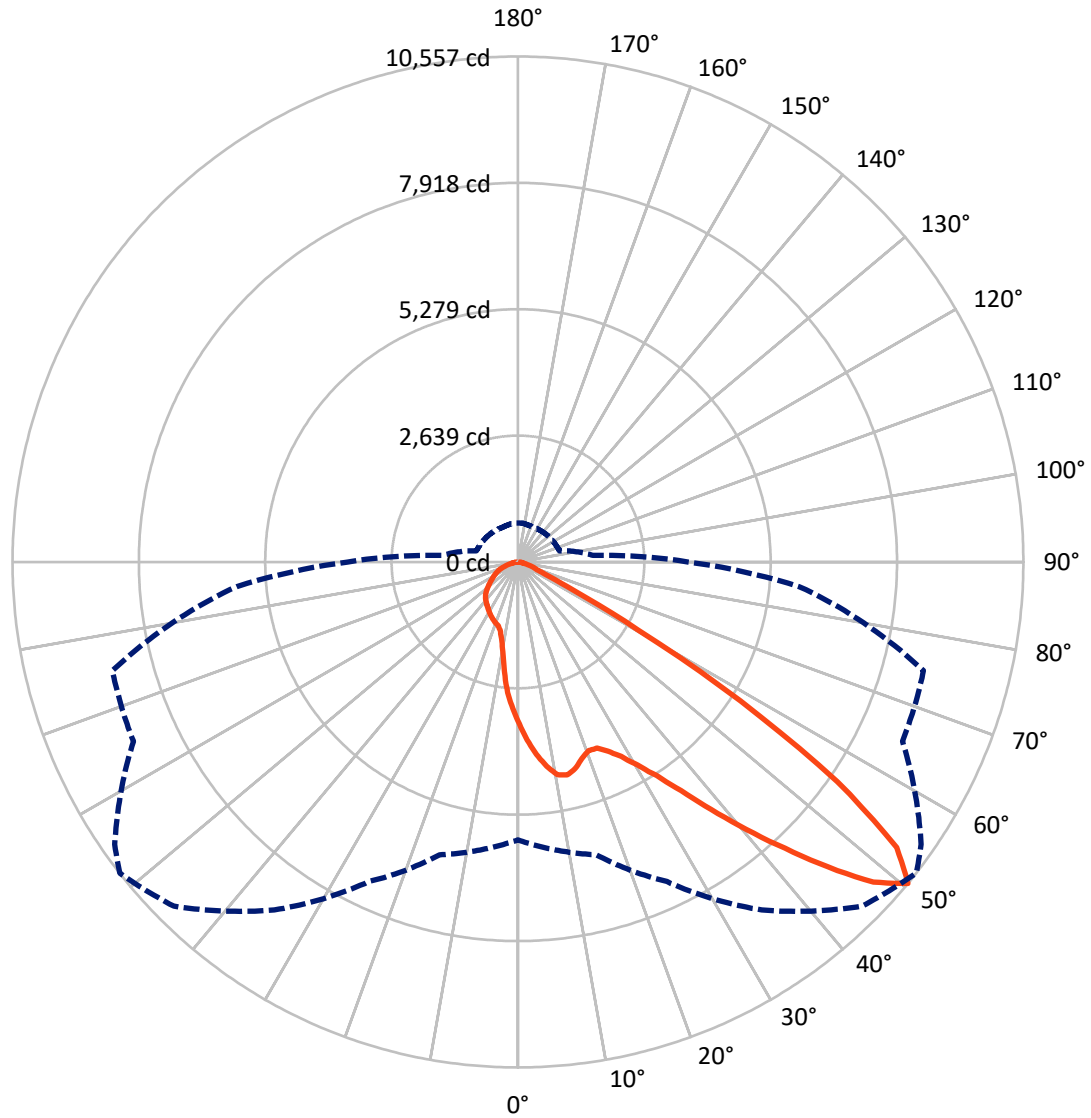
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2255.7	0.0	2255.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9744.3	0.0	9744.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	12000.0	0.0	12000.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.8	2.6
10°-20°	835.6	7.0
20°-30°	1407.6	11.7
30°-40°	2362.0	19.7
40°-50°	3613.4	30.1
50°-60°	2634.4	22.0
60°-70°	586.3	4.9
70°-80°	211.5	1.8
80°-90°	37.4	0.3
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°	12000.0	100.0
0°-180°	12000.0	100.0

Coefficient of Utilization



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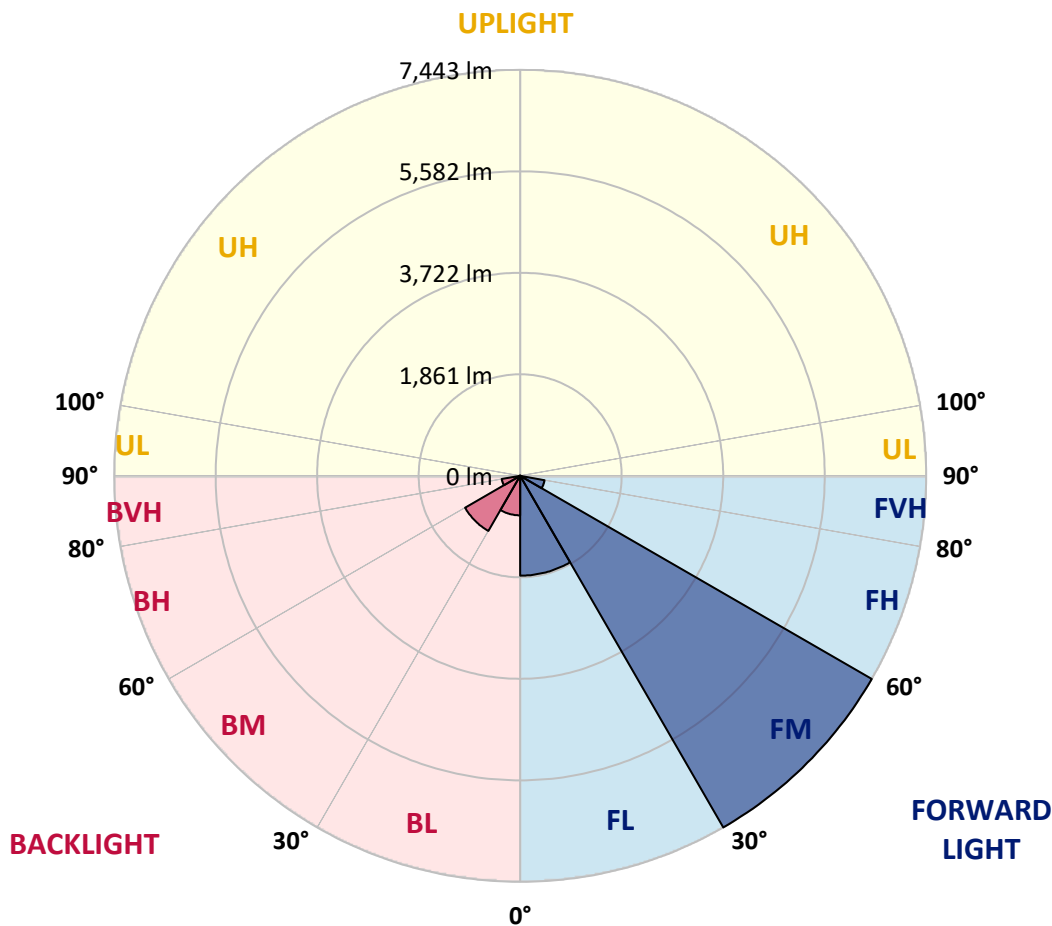
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1830.4	15.3			
FM (30°-60°)	7443.0	62.0			
FH (60°-80°)	454.1	3.8			G0/660
FVH (80°-90°)	16.8	0.1			G1/100
BL (0°-30°)	724.6	6.0	B2/1000		
BM (30°-60°)	1166.8	9.7	B2/2500		
BH (60°-80°)	343.7	2.9	B1/500		G1/500
BVH (80°-90°)	20.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6
2.5°	3982.8	3906.1	3914.8	3859.8	3800.5	3783.2	3722.5	3664.6	3621.2	3528.7	3443.3
5°	4353.0	4329.8	4295.1	4251.8	4206.9	4097.0	4034.8	3962.5	3803.4	3660.3	3518.5
7.5°	4406.5	4402.2	4421.0	4421.0	4436.9	4394.9	4306.7	4256.1	4086.9	3854.1	3590.9
10°	4030.5	4043.5	4134.6	4253.2	4418.1	4532.3	4517.8	4504.8	4319.7	4001.6	3676.2
12.5°	3731.1	3702.2	3755.7	3856.9	4104.2	4380.5	4567.0	4568.5	4520.7	4237.3	3738.4
15°	3561.9	3582.2	3596.6	3644.4	3830.9	4150.5	4478.8	4575.7	4785.4	4403.6	3836.7
17.5°	3670.4	3602.4	3599.5	3611.1	3706.5	3946.6	4315.4	4481.7	4930.0	4617.6	3958.2
20°	3812.1	3810.7	3770.2	3755.7	3754.3	3968.3	4208.4	4434.0	5006.7	4895.3	4081.1
22.5°	4060.9	4060.9	3994.3	3962.5	3894.5	4069.5	4222.8	4376.1	5133.9	5086.2	4140.4
25°	4477.4	4409.4	4295.1	4217.0	4178.0	4240.2	4376.1	4513.5	5245.3	5288.7	4263.3
27.5°	4862.0	4755.0	4698.6	4564.1	4512.1	4475.9	4600.3	4739.1	5375.4	5603.9	4329.8
30°	5298.8	5280.0	5178.7	5005.2	4876.5	4810.0	4924.2	5061.6	5614.0	5926.4	4483.1
32.5°	6079.7	5909.1	5771.7	5559.1	5349.4	5207.7	5320.5	5411.6	6010.3	6263.4	4650.9
35°	6922.8	6867.9	6630.7	6247.5	5926.4	5799.2	5865.7	5933.7	6471.6	6778.2	4932.9
37.5°	7751.5	7676.3	7481.1	7158.6	6768.1	6509.2	6557.0	6636.5	6989.4	7472.4	5277.1
40°	8347.3	8254.8	8156.4	8108.7	7721.1	7366.8	7339.3	7359.6	7689.3	8123.2	5658.9
42.5°	8390.7	8504.9	8535.3	8727.7	8636.6	8345.9	8176.7	8181.0	8357.4	8766.7	6045.0
45°	8299.6	8194.0	8418.2	8943.1	9243.9	9379.9	9095.0	9058.8	8771.0	9139.8	6237.3
47.5°	7343.7	7372.6	7751.5	8581.6	9450.7	10058.1	9991.6	9871.6	8992.3	9126.8	6207.0
50°	5804.9	5979.9	6331.3	7365.4	8872.3	10165.2	10557.1	10279.4	8860.7	8768.2	5897.5
52.5°	3865.6	3937.9	4169.3	5504.1	7134.0	9086.3	9906.3	9969.9	8739.2	8298.1	5505.6
55°	1720.9	1715.2	2040.6	2875.0	4475.9	6914.2	8094.2	8481.8	8272.1	7819.5	5123.8
57.5°	728.9	753.5	886.5	1242.3	2201.1	4172.2	5483.9	5823.7	6361.7	6421.0	3930.7
60°	493.1	496.0	532.2	621.9	921.2	1959.6	2876.4	3284.3	3668.9	3642.9	2085.4
62.5°	387.6	397.7	425.2	461.3	546.7	889.4	1287.1	1514.1	1538.7	1294.3	791.1
65°	331.2	332.6	360.1	390.5	428.1	517.7	620.4	632.0	639.2	616.1	581.4
67.5°	273.3	276.2	297.9	332.6	367.3	396.3	425.2	439.6	472.9	538.0	529.3
70°	216.9	221.3	240.1	269.0	300.8	318.2	354.3	367.3	397.7	448.3	468.6
72.5°	164.9	166.3	182.2	202.5	231.4	248.7	279.1	293.6	313.8	357.2	376.0
75°	118.6	122.9	134.5	144.6	149.0	160.5	189.4	205.4	234.3	253.1	254.5
77.5°	62.2	65.1	68.0	68.0	82.4	104.1	122.9	131.6	151.8	166.3	159.1
80°	24.6	26.0	33.3	44.8	57.8	75.2	88.2	92.6	109.9	118.6	122.9
82.5°	14.5	15.9	21.7	31.8	41.9	53.5	63.6	68.0	79.5	89.7	92.6
85°	7.2	8.7	13.0	20.2	27.5	33.3	31.8	30.4	30.4	28.9	30.4
87.5°	2.9	2.9	4.3	4.3	4.3	5.8	7.2	7.2	7.2	8.7	8.7
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°	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6	3382.6
2.5°	3386.9	3329.1	3275.6	3177.2	3070.2	3039.9	2915.5	2870.7	2838.8	2801.2	2789.7
5°	3404.3	3327.6	3155.6	2957.4	2799.8	2597.3	2464.3	2321.1	2217.0	2191.0	2183.7
7.5°	3440.4	3308.8	3012.4	2713.0	2390.5	2115.8	1906.1	1793.3	1693.5	1687.7	1677.6
10°	3480.9	3252.4	2856.2	2386.2	1974.0	1719.5	1593.7	1544.5	1519.9	1514.1	1511.3
12.5°	3514.2	3240.9	2681.2	2068.0	1679.0	1525.7	1488.1	1483.8	1493.9	1496.8	1502.6
15°	3528.7	3194.6	2470.1	1783.1	1495.3	1438.9	1454.9	1472.2	1479.4	1498.2	1483.8
17.5°	3556.1	3135.3	2209.8	1557.5	1392.7	1402.8	1430.3	1450.5	1462.1	1475.1	1456.3
20°	3570.6	3081.8	1965.4	1423.0	1356.5	1375.3	1412.9	1428.8	1443.3	1449.1	1427.4
22.5°	3557.6	2971.9	1749.9	1314.6	1321.8	1346.4	1379.7	1397.0	1388.3	1365.2	1352.2
25°	3522.9	2817.1	1525.7	1245.2	1272.6	1316.0	1342.0	1329.0	1313.1	1300.1	1295.8
27.5°	3521.4	2627.7	1363.7	1181.5	1230.7	1290.0	1281.3	1269.7	1277.0	1266.8	1255.3
30°	3528.7	2444.0	1230.7	1145.4	1200.3	1229.2	1239.4	1227.8	1236.5	1217.7	1223.5
32.5°	3491.1	2264.7	1143.9	1103.4	1164.2	1162.7	1196.0	1204.7	1184.4	1145.4	1151.2
35°	3507.0	2120.1	1070.2	1084.6	1123.7	1123.7	1149.7	1139.6	1086.1	1062.9	1068.7
37.5°	3616.9	1978.4	1034.0	1058.6	1084.6	1096.2	1087.5	1044.1	1031.1	1031.1	1034.0
40°	3721.0	1856.9	1012.3	1052.8	1048.5	1055.7	992.1	996.4	996.4	997.9	990.6
42.5°	3813.6	1774.5	995.0	1018.1	1025.3	987.7	948.7	944.4	954.5	953.0	947.2
45°	3846.8	1706.5	970.4	979.1	984.8	922.7	903.9	895.2	906.8	911.1	916.9
47.5°	3719.6	1650.1	942.9	925.6	914.0	873.5	848.9	833.0	847.5	872.0	877.8
50°	3556.1	1576.3	899.5	866.3	841.7	824.3	807.0	791.1	801.2	818.5	814.2
52.5°	3314.6	1460.6	844.6	809.9	767.9	772.3	756.3	747.7	753.5	753.5	749.1
55°	2970.4	1200.3	752.0	727.4	692.7	704.3	707.2	695.6	684.0	694.2	685.5
57.5°	2027.5	847.5	671.0	671.0	636.3	652.2	650.8	623.3	595.8	598.7	592.9
60°	1172.8	675.4	619.0	613.2	577.0	590.0	592.9	574.1	532.2	535.1	529.3
62.5°	666.7	577.0	540.9	532.2	525.0	536.5	536.5	511.9	475.8	478.7	472.9
65°	566.9	535.1	483.0	481.6	478.7	481.6	470.0	444.0	412.2	399.1	400.6
67.5°	514.8	494.6	444.0	431.0	422.3	420.8	399.1	374.6	360.1	348.5	347.1
70°	451.2	435.3	397.7	380.3	371.7	351.4	329.7	313.8	293.6	287.8	293.6
72.5°	357.2	355.8	341.3	322.5	303.7	287.8	269.0	247.3	228.5	224.2	214.0
75°	247.3	250.2	253.1	250.2	234.3	214.0	192.3	175.0	151.8	138.8	135.9
77.5°	162.0	166.3	170.6	164.9	154.7	135.9	121.5	99.8	82.4	72.3	70.9
80°	118.6	124.4	127.3	122.9	111.4	96.9	81.0	63.6	50.6	41.9	41.9
82.5°	91.1	96.9	99.8	92.6	81.0	69.4	57.8	44.8	34.7	27.5	26.0
85°	31.8	30.4	36.2	37.6	44.8	41.9	34.7	26.0	20.2	14.5	13.0
87.5°	8.7	8.7	10.1	10.1	8.7	7.2	7.2	7.2	5.8	4.3	4.3
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)