

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: P528306

Luminaire Tested: **GALN-SA3B-827-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528306
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-SA3B-827-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA 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: 11267 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

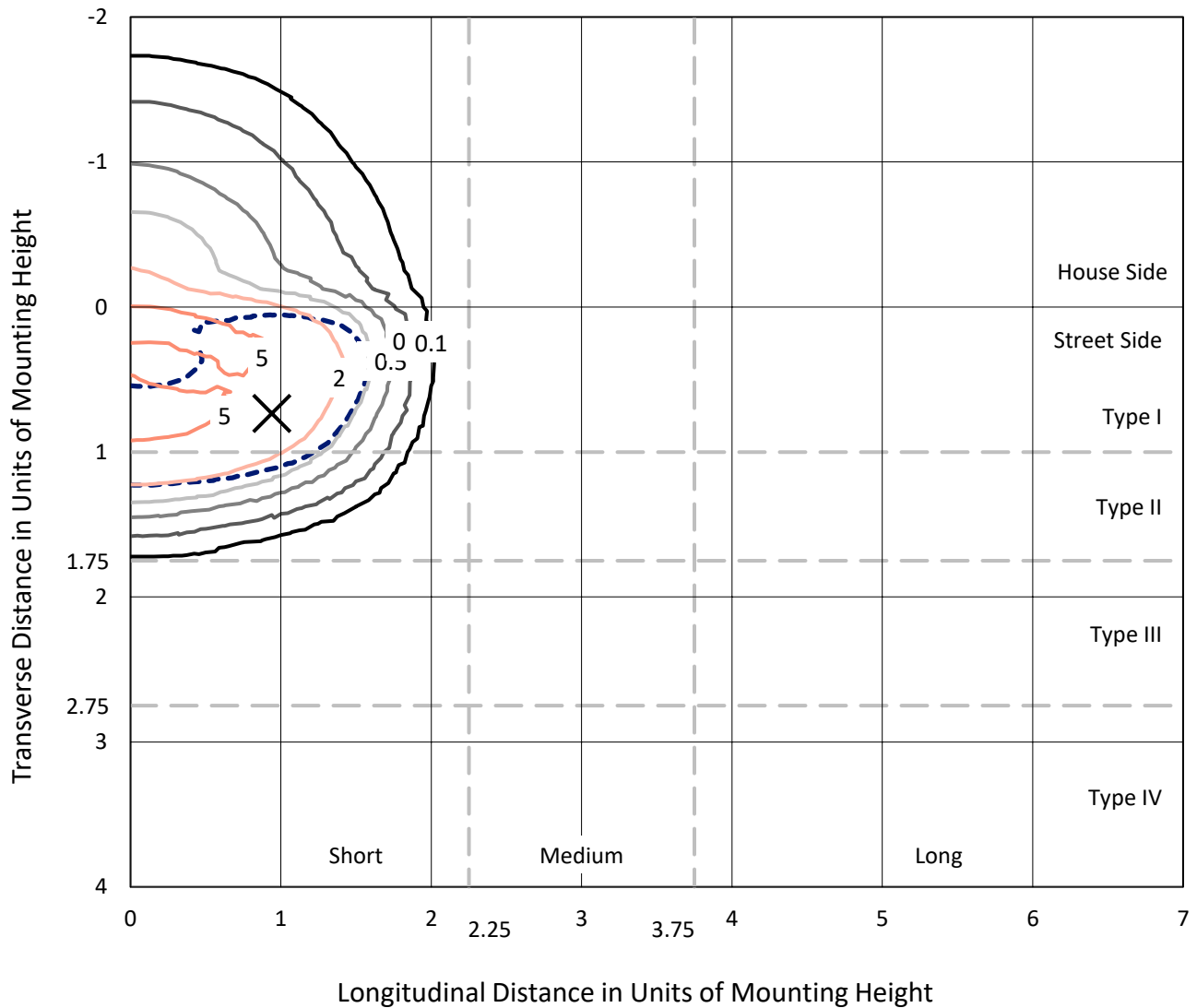
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

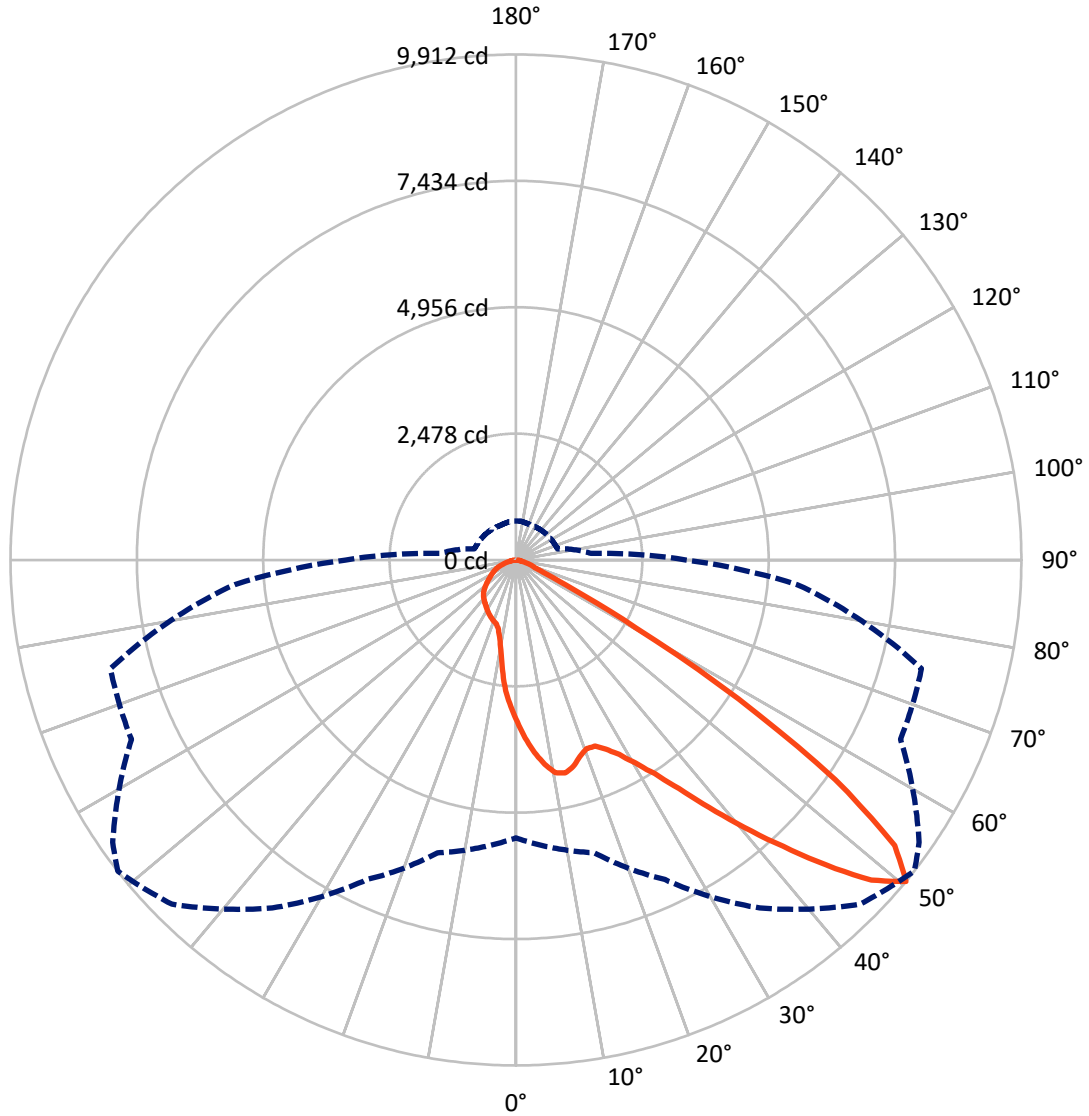
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	2117.9	0.0	2117.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9149.1	0.0	9149.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11267.0	0.0	11267.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.7	2.6
10°-20°	784.6	7.0
20°-30°	1321.6	11.7
30°-40°	2217.8	19.7
40°-50°	3392.6	30.1
50°-60°	2473.5	22.0
60°-70°	550.5	4.9
70°-80°	198.6	1.8
80°-90°	35.1	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°	11267.0	100.0
0°-180°	11267.0	100.0

Coefficient of Utilization



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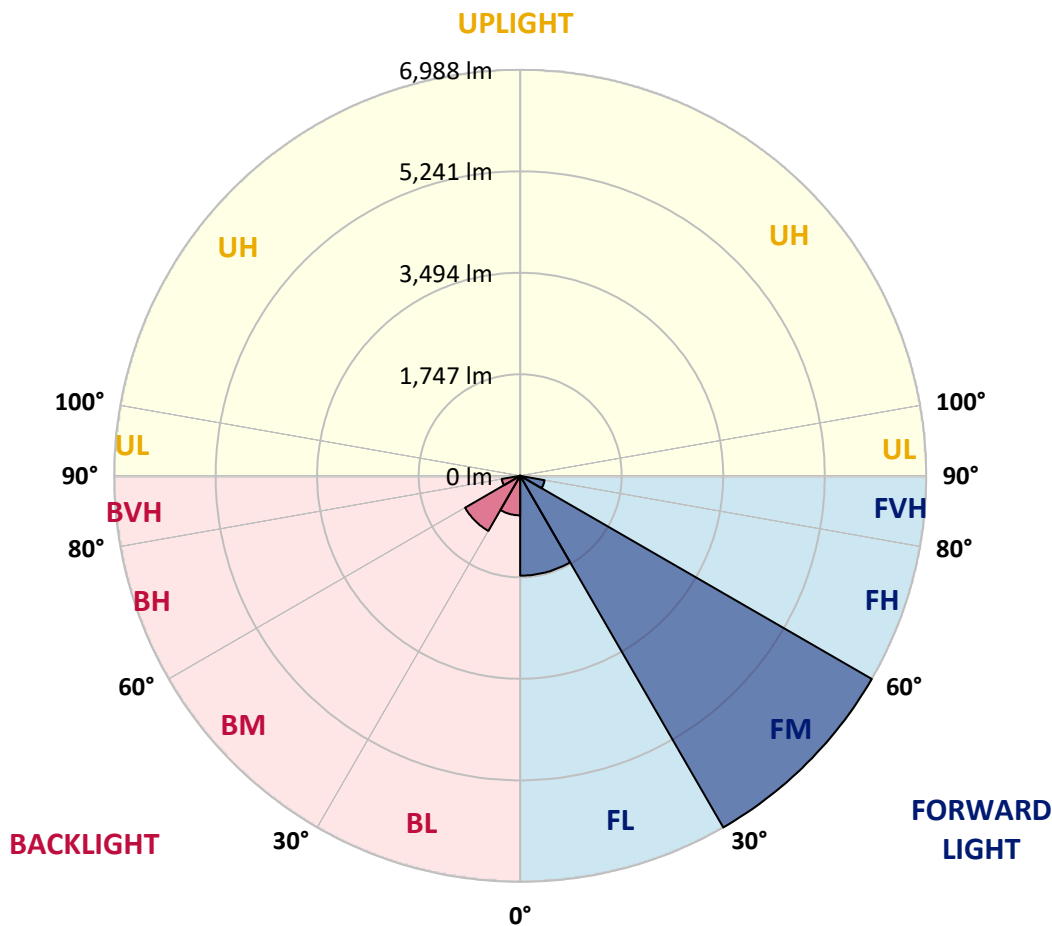
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.6	15.3			
FM (30°-60°)	6988.4	62.0			
FH (60°-80°)	426.4	3.8			G0/660
FVH (80°-90°)	15.7	0.1			G1/100
BL (0°-30°)	680.3	6.0	B2/1000		
BM (30°-60°)	1095.5	9.7	B2/2500		
BH (60°-80°)	322.7	2.9	B1/500		G1/500
BVH (80°-90°)	19.4	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°	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0
2.5°	3739.5	3667.5	3675.7	3624.1	3568.4	3552.1	3495.1	3440.8	3400.0	3313.1	3233.0
5°	4087.1	4065.4	4032.8	3992.0	3949.9	3846.8	3788.4	3720.5	3571.1	3436.7	3303.6
7.5°	4137.3	4133.3	4150.9	4150.9	4165.8	4126.5	4043.6	3996.1	3837.2	3618.6	3371.5
10°	3784.3	3796.5	3882.1	3993.4	4148.2	4255.5	4241.9	4229.7	4055.9	3757.1	3451.6
12.5°	3503.2	3476.1	3526.3	3621.4	3853.5	4112.9	4288.0	4289.4	4244.6	3978.5	3510.0
15°	3344.4	3363.4	3376.9	3421.7	3596.9	3897.0	4205.2	4296.2	4493.1	4134.6	3602.3
17.5°	3446.2	3382.4	3379.7	3390.5	3480.1	3705.5	4051.8	4207.9	4628.9	4335.6	3716.4
20°	3579.3	3577.9	3539.9	3526.3	3524.9	3725.9	3951.3	4163.1	4700.8	4596.3	3831.8
22.5°	3812.8	3812.8	3750.3	3720.5	3656.7	3821.0	3964.9	4108.8	4820.3	4775.5	3887.5
25°	4203.9	4140.0	4032.8	3959.5	3922.8	3981.2	4108.8	4237.8	4924.9	4965.6	4002.9
27.5°	4565.0	4464.6	4411.6	4285.3	4236.5	4202.5	4319.3	4449.6	5047.1	5261.6	4065.4
30°	4975.1	4957.5	4862.4	4699.5	4578.6	4516.2	4623.4	4752.4	5271.1	5564.4	4209.3
32.5°	5708.3	5548.1	5419.1	5219.5	5022.6	4889.6	4995.5	5081.0	5643.2	5880.8	4366.8
35°	6500.0	6448.4	6225.7	5865.9	5564.4	5444.9	5507.4	5571.2	6076.3	6364.2	4631.6
37.5°	7278.0	7207.4	7024.1	6721.3	6354.7	6111.6	6156.4	6231.1	6562.4	7015.9	4954.7
40°	7837.4	7750.5	7658.2	7613.4	7249.5	6916.8	6891.0	6910.0	7219.6	7627.0	5313.2
42.5°	7878.2	7985.4	8014.0	8194.5	8109.0	7836.1	7677.2	7681.3	7846.9	8231.2	5675.8
45°	7792.6	7693.5	7904.0	8396.9	8679.3	8806.9	8539.4	8505.5	8235.3	8581.5	5856.4
47.5°	6895.1	6922.3	7278.0	8057.4	8873.5	9443.8	9381.3	9268.6	8443.0	8569.3	5827.8
50°	5450.4	5614.7	5944.6	6915.5	8330.3	9544.2	9912.2	9651.5	8319.5	8232.6	5537.3
52.5°	3629.5	3697.4	3914.6	5167.9	6698.2	8531.3	9301.2	9360.9	8205.4	7791.3	5169.3
55°	1615.8	1610.4	1915.9	2699.4	4202.5	6491.8	7599.8	7963.7	7766.8	7341.8	4810.8
57.5°	684.3	707.4	832.4	1166.4	2066.6	3917.4	5148.9	5468.0	5973.1	6028.8	3690.6
60°	463.0	465.7	499.7	583.9	864.9	1839.9	2700.7	3083.6	3444.8	3420.4	1958.0
62.5°	363.9	373.4	399.2	433.1	513.3	835.1	1208.5	1421.7	1444.7	1215.3	742.7
65°	310.9	312.3	338.1	366.6	401.9	486.1	582.5	593.4	600.2	578.4	545.9
67.5°	256.6	259.3	279.7	312.3	344.9	372.0	399.2	412.8	444.0	505.1	497.0
70°	203.7	207.7	225.4	252.6	282.4	298.7	332.7	344.9	373.4	420.9	439.9
72.5°	154.8	156.2	171.1	190.1	217.3	233.5	262.1	275.6	294.7	335.4	353.0
75°	111.3	115.4	126.3	135.8	139.9	150.7	177.9	192.8	220.0	237.6	239.0
77.5°	58.4	61.1	63.8	63.8	77.4	97.8	115.4	123.6	142.6	156.2	149.4
80°	23.1	24.4	31.2	42.1	54.3	70.6	82.8	86.9	103.2	111.3	115.4
82.5°	13.6	14.9	20.4	29.9	39.4	50.2	59.7	63.8	74.7	84.2	86.9
85°	6.8	8.1	12.2	19.0	25.8	31.2	29.9	28.5	28.5	27.2	28.5
87.5°	2.7	2.7	4.1	4.1	4.1	5.4	6.8	6.8	6.8	8.1	8.1
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°	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0	3176.0
2.5°	3180.1	3125.7	3075.5	2983.2	2882.7	2854.2	2737.4	2695.3	2665.4	2630.1	2619.3
5°	3196.3	3124.4	2962.8	2776.8	2628.8	2438.7	2313.8	2179.3	2081.6	2057.1	2050.3
7.5°	3230.3	3106.7	2828.4	2547.3	2244.5	1986.5	1789.6	1683.7	1590.0	1584.6	1575.1
10°	3268.3	3053.8	2681.7	2240.4	1853.4	1614.5	1496.3	1450.2	1427.1	1421.7	1418.9
12.5°	3299.5	3042.9	2517.4	1941.7	1576.4	1432.5	1397.2	1393.1	1402.6	1405.4	1410.8
15°	3313.1	2999.5	2319.2	1674.2	1404.0	1351.0	1366.0	1382.3	1389.1	1406.7	1393.1
17.5°	3338.9	2943.8	2074.8	1462.4	1307.6	1317.1	1342.9	1361.9	1372.8	1385.0	1367.3
20°	3352.5	2893.6	1845.3	1336.1	1273.7	1291.3	1326.6	1341.5	1355.1	1360.6	1340.2
22.5°	3340.3	2790.4	1643.0	1234.3	1241.1	1264.1	1295.4	1311.7	1303.5	1281.8	1269.6
25°	3307.7	2645.1	1432.5	1169.1	1194.9	1235.6	1260.1	1247.9	1232.9	1220.7	1216.6
27.5°	3306.3	2467.2	1280.4	1109.4	1155.5	1211.2	1203.0	1192.2	1199.0	1189.5	1178.6
30°	3313.1	2294.7	1155.5	1075.4	1127.0	1154.2	1163.7	1152.8	1161.0	1143.3	1148.7
32.5°	3277.8	2126.4	1074.0	1036.0	1093.1	1091.7	1122.9	1131.1	1112.1	1075.4	1080.8
35°	3292.8	1990.6	1004.8	1018.4	1055.0	1055.0	1079.5	1070.0	1019.7	998.0	1003.4
37.5°	3396.0	1857.5	970.9	993.9	1018.4	1029.2	1021.1	980.4	968.1	968.1	970.9
40°	3493.7	1743.5	950.5	988.5	984.4	991.2	931.5	935.5	935.5	936.9	930.1
42.5°	3580.6	1666.1	934.2	955.9	962.7	927.4	890.7	886.7	896.2	894.8	889.4
45°	3611.8	1602.2	911.1	919.3	924.7	866.3	848.6	840.5	851.4	855.4	860.9
47.5°	3492.4	1549.3	885.3	869.0	858.2	820.1	797.1	782.1	795.7	818.8	824.2
50°	3338.9	1480.0	844.6	813.3	790.3	774.0	757.7	742.7	752.2	768.5	764.5
52.5°	3112.2	1371.4	793.0	760.4	721.0	725.1	710.1	702.0	707.4	707.4	703.4
55°	2789.0	1127.0	706.1	683.0	650.4	661.3	664.0	653.1	642.3	651.8	643.6
57.5°	1903.7	795.7	630.0	630.0	597.4	612.4	611.0	585.2	559.4	562.1	556.7
60°	1101.2	634.1	581.2	575.7	541.8	554.0	556.7	539.1	499.7	502.4	497.0
62.5°	626.0	541.8	507.8	499.7	492.9	503.8	503.8	480.7	446.7	449.4	444.0
65°	532.3	502.4	453.5	452.2	449.4	452.2	441.3	416.9	387.0	374.8	376.1
67.5°	483.4	464.4	416.9	404.6	396.5	395.1	374.8	351.7	338.1	327.2	325.9
70°	423.6	408.7	373.4	357.1	349.0	330.0	309.6	294.7	275.6	270.2	275.6
72.5°	335.4	334.0	320.4	302.8	285.1	270.2	252.6	232.2	214.5	210.5	201.0
75°	232.2	234.9	237.6	234.9	220.0	201.0	180.6	164.3	142.6	130.4	127.6
77.5°	152.1	156.2	160.2	154.8	145.3	127.6	114.1	93.7	77.4	67.9	66.5
80°	111.3	116.8	119.5	115.4	104.6	91.0	76.0	59.7	47.5	39.4	39.4
82.5°	85.5	91.0	93.7	86.9	76.0	65.2	54.3	42.1	32.6	25.8	24.4
85°	29.9	28.5	33.9	35.3	42.1	39.4	32.6	24.4	19.0	13.6	12.2
87.5°	8.1	8.1	9.5	9.5	8.1	6.8	6.8	6.8	5.4	4.1	4.1
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)