

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: P527448

Luminaire Tested: **GALN-SA2C-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527448
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-SA2C-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 10670 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

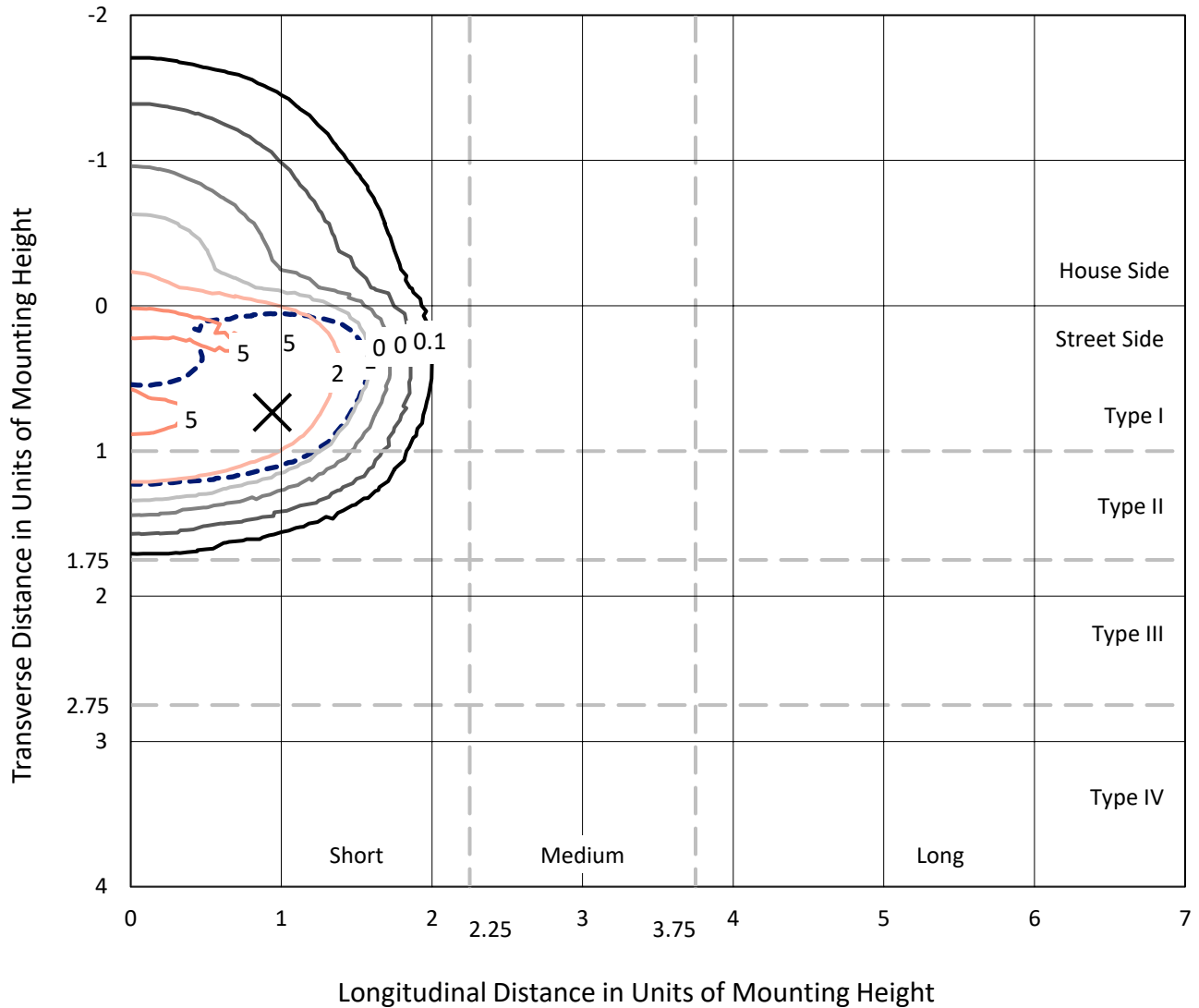
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

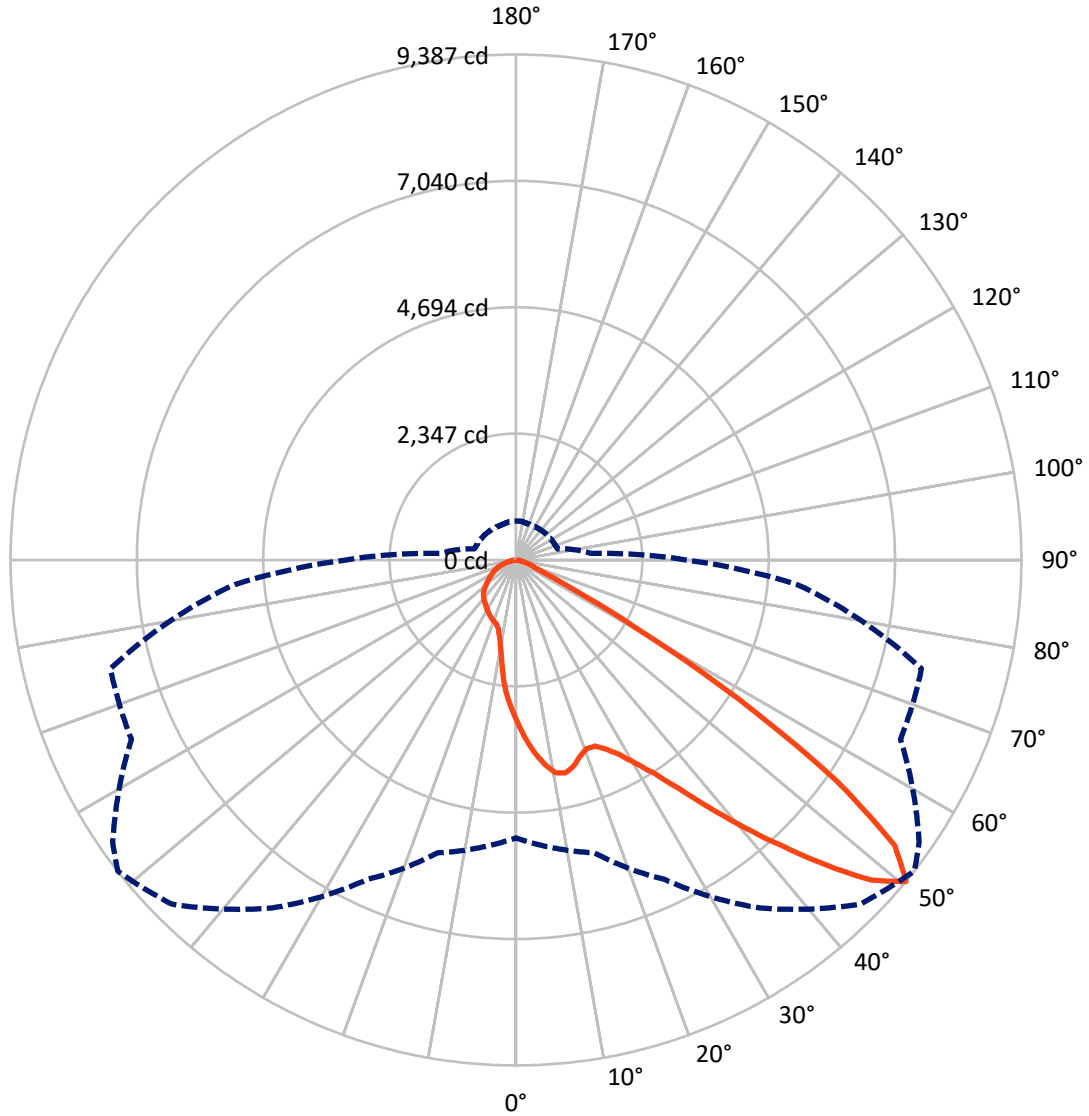
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	2005.7	0.0	2005.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	8664.3	0.0	8664.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	10670.0	0.0	10670.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.2	2.6
10°-20°	743.0	7.0
20°-30°	1251.6	11.7
30°-40°	2100.3	19.7
40°-50°	3212.9	30.1
50°-60°	2342.4	22.0
60°-70°	521.3	4.9
70°-80°	188.0	1.8
80°-90°	33.3	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°	10670.0	100.0
0°-180°	10670.0	100.0

Coefficient of Utilization

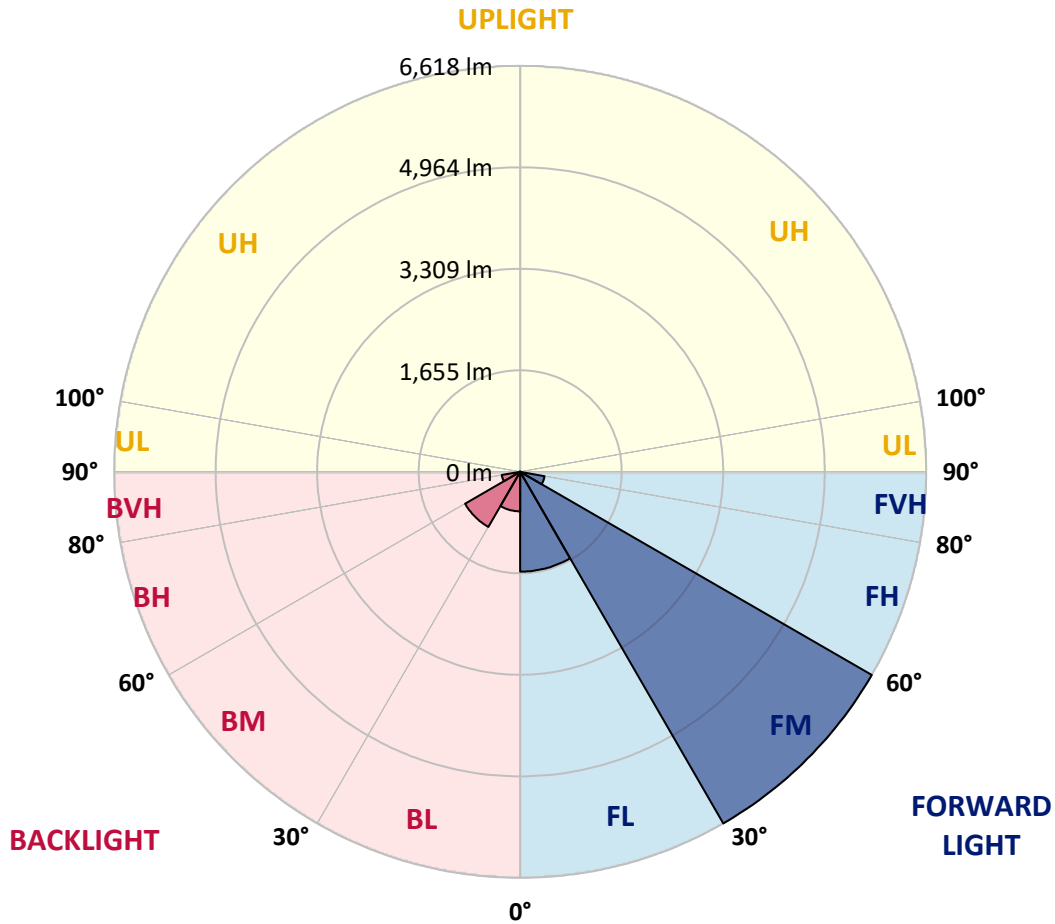


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.5	15.3			
FM (30°-60°)	6618.1	62.0			
FH (60°-80°)	403.8	3.8			G0/660
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	644.3	6.0	B2/1000		
BM (30°-60°)	1037.5	9.7	B2/2500		
BH (60°-80°)	305.6	2.9	B1/500		G1/500
BVH (80°-90°)	18.4	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°	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7
2.5°	3541.3	3473.2	3480.9	3432.0	3379.3	3363.9	3309.9	3258.4	3219.9	3137.6	3061.7
5°	3870.5	3850.0	3819.1	3780.5	3740.7	3642.9	3587.6	3523.3	3381.9	3254.6	3128.6
7.5°	3918.1	3914.2	3931.0	3931.0	3945.1	3907.8	3829.4	3784.4	3633.9	3426.9	3192.9
10°	3583.8	3595.3	3676.4	3781.8	3928.4	4030.0	4017.1	4005.5	3841.0	3558.1	3268.7
12.5°	3317.6	3291.9	3339.5	3429.5	3649.4	3895.0	4060.8	4062.1	4019.7	3767.7	3324.0
15°	3167.1	3185.1	3198.0	3240.4	3406.3	3690.5	3982.4	4068.6	4255.0	3915.5	3411.5
17.5°	3263.6	3203.2	3200.6	3210.9	3295.7	3509.2	3837.1	3985.0	4383.6	4105.8	3519.5
20°	3389.6	3388.3	3352.3	3339.5	3338.2	3528.5	3741.9	3942.5	4451.8	4352.7	3628.8
22.5°	3610.8	3610.8	3551.6	3523.3	3462.9	3618.5	3754.8	3891.1	4564.9	4522.5	3681.5
25°	3981.1	3920.7	3819.1	3749.7	3714.9	3770.2	3891.1	4013.3	4663.9	4702.5	3790.8
27.5°	4323.2	4228.0	4177.9	4058.3	4012.0	3979.8	4090.4	4213.9	4779.7	4982.8	3850.0
30°	4711.5	4694.8	4604.8	4450.5	4336.0	4276.9	4378.5	4500.6	4991.8	5269.6	3986.3
32.5°	5405.9	5254.1	5132.0	4943.0	4756.5	4630.5	4730.8	4811.8	5344.2	5569.2	4135.4
35°	6155.6	6106.7	5895.8	5555.0	5269.6	5156.4	5215.6	5276.0	5754.4	6027.0	4386.2
37.5°	6892.4	6825.5	6651.9	6365.2	6018.0	5787.8	5830.2	5900.9	6214.7	6644.2	4692.2
40°	7422.2	7339.9	7252.4	7210.0	6865.4	6550.3	6525.9	6543.9	6837.1	7222.8	5031.7
42.5°	7460.7	7562.3	7589.3	7760.3	7679.3	7420.9	7270.4	7274.3	7431.2	7795.1	5375.0
45°	7379.7	7285.9	7485.2	7951.9	8219.4	8340.3	8087.0	8054.8	7798.9	8126.8	5546.0
47.5°	6529.7	6555.5	6892.4	7630.5	8403.3	8943.4	8884.2	8777.5	7995.7	8115.3	5519.0
50°	5161.6	5317.2	5629.6	6549.0	7888.9	9038.5	9387.0	9140.1	7878.6	7796.3	5243.9
52.5°	3437.2	3501.5	3707.2	4894.1	6343.3	8079.2	8808.3	8864.9	7770.6	7378.4	4895.4
55°	1530.2	1525.1	1814.4	2556.3	3979.8	6147.8	7197.1	7541.7	7355.3	6952.8	4555.9
57.5°	648.1	669.9	788.3	1104.6	1957.1	3709.8	4876.1	5178.3	5656.6	5709.4	3495.0
60°	438.5	441.1	473.2	552.9	819.1	1742.4	2557.6	2920.3	3262.3	3239.2	1854.3
62.5°	344.6	353.6	378.1	410.2	486.1	790.8	1144.4	1346.3	1368.2	1150.9	703.4
65°	294.5	295.8	320.2	347.2	380.6	460.3	551.6	561.9	568.4	547.8	516.9
67.5°	243.0	245.6	264.9	295.8	326.6	352.3	378.1	390.9	420.5	478.4	470.6
70°	192.9	196.7	213.5	239.2	267.5	282.9	315.0	326.6	353.6	398.6	416.6
72.5°	146.6	147.9	162.0	180.0	205.7	221.2	248.2	261.0	279.0	317.6	334.3
75°	105.4	109.3	119.6	128.6	132.4	142.7	168.5	182.6	208.3	225.0	226.3
77.5°	55.3	57.9	60.4	60.4	73.3	92.6	109.3	117.0	135.0	147.9	141.4
80°	21.9	23.1	29.6	39.9	51.4	66.9	78.4	82.3	97.7	105.4	109.3
82.5°	12.9	14.1	19.3	28.3	37.3	47.6	56.6	60.4	70.7	79.7	82.3
85°	6.4	7.7	11.6	18.0	24.4	29.6	28.3	27.0	27.0	25.7	27.0
87.5°	2.6	2.6	3.9	3.9	3.9	5.1	6.4	6.4	6.4	7.7	7.7
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°	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7	3007.7
2.5°	3011.6	2960.1	2912.5	2825.1	2729.9	2702.9	2592.4	2552.5	2524.2	2490.8	2480.5
5°	3027.0	2958.8	2805.8	2629.6	2489.5	2309.5	2191.2	2063.9	1971.3	1948.1	1941.7
7.5°	3059.1	2942.1	2678.5	2412.3	2125.6	1881.3	1694.8	1594.5	1505.8	1500.6	1491.6
10°	3095.1	2892.0	2539.6	2121.7	1755.2	1528.9	1417.1	1373.3	1351.5	1346.3	1343.8
12.5°	3124.7	2881.7	2384.0	1838.8	1492.9	1356.6	1323.2	1319.3	1328.3	1330.9	1336.0
15°	3137.6	2840.5	2196.3	1585.5	1329.6	1279.5	1293.6	1309.0	1315.5	1332.2	1319.3
17.5°	3162.0	2787.8	1964.8	1384.9	1238.3	1247.3	1271.7	1289.7	1300.0	1311.6	1294.9
20°	3174.9	2740.2	1747.5	1265.3	1206.2	1222.9	1256.3	1270.5	1283.3	1288.5	1269.2
22.5°	3163.3	2642.5	1555.9	1168.9	1175.3	1197.2	1226.7	1242.2	1234.5	1213.9	1202.3
25°	3132.4	2504.9	1356.6	1107.2	1131.6	1170.2	1193.3	1181.7	1167.6	1156.0	1152.2
27.5°	3131.1	2336.5	1212.6	1050.6	1094.3	1147.0	1139.3	1129.0	1135.4	1126.4	1116.2
30°	3137.6	2173.2	1094.3	1018.4	1067.3	1093.0	1102.0	1091.7	1099.4	1082.7	1087.9
32.5°	3104.1	2013.7	1017.1	981.1	1035.1	1033.9	1063.4	1071.1	1053.1	1018.4	1023.6
35°	3118.3	1885.1	951.6	964.4	999.1	999.1	1022.3	1013.3	965.7	945.1	950.3
37.5°	3216.0	1759.1	919.4	941.3	964.4	974.7	967.0	928.4	916.8	916.8	919.4
40°	3308.6	1651.1	900.1	936.1	932.3	938.7	882.1	886.0	886.0	887.3	880.8
42.5°	3390.9	1577.8	884.7	905.3	911.7	878.3	843.5	839.7	848.7	847.4	842.3
45°	3420.5	1517.3	862.8	870.5	875.7	820.4	803.7	796.0	806.3	810.1	815.3
47.5°	3307.3	1467.2	838.4	823.0	812.7	776.7	754.8	740.7	753.5	775.4	780.5
50°	3162.0	1401.6	799.8	770.2	748.4	733.0	717.5	703.4	712.4	727.8	724.0
52.5°	2947.3	1298.7	751.0	720.1	682.8	686.7	672.5	664.8	669.9	669.9	666.1
55°	2641.2	1067.3	668.7	646.8	615.9	626.2	628.8	618.5	608.2	617.2	609.5
57.5°	1802.8	753.5	596.7	596.7	565.8	579.9	578.7	554.2	529.8	532.4	527.2
60°	1042.9	600.5	550.4	545.2	513.1	524.6	527.2	510.5	473.2	475.8	470.6
62.5°	592.8	513.1	480.9	473.2	466.8	477.1	477.1	455.2	423.1	425.6	420.5
65°	504.1	475.8	429.5	428.2	425.6	428.2	417.9	394.8	366.5	354.9	356.2
67.5°	457.8	439.8	394.8	383.2	375.5	374.2	354.9	333.0	320.2	309.9	308.6
70°	401.2	387.1	353.6	338.2	330.5	312.5	293.2	279.0	261.0	255.9	261.0
72.5°	317.6	316.3	303.5	286.8	270.0	255.9	239.2	219.9	203.2	199.3	190.3
75°	219.9	222.5	225.0	222.5	208.3	190.3	171.0	155.6	135.0	123.4	120.9
77.5°	144.0	147.9	151.7	146.6	137.6	120.9	108.0	88.7	73.3	64.3	63.0
80°	105.4	110.6	113.2	109.3	99.0	86.2	72.0	56.6	45.0	37.3	37.3
82.5°	81.0	86.2	88.7	82.3	72.0	61.7	51.4	39.9	30.9	24.4	23.1
85°	28.3	27.0	32.1	33.4	39.9	37.3	30.9	23.1	18.0	12.9	11.6
87.5°	7.7	7.7	9.0	9.0	7.7	6.4	6.4	6.4	5.1	3.9	3.9
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)