

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: P527537

Luminaire Tested: **GALN-SA2C-740-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-740-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8340 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

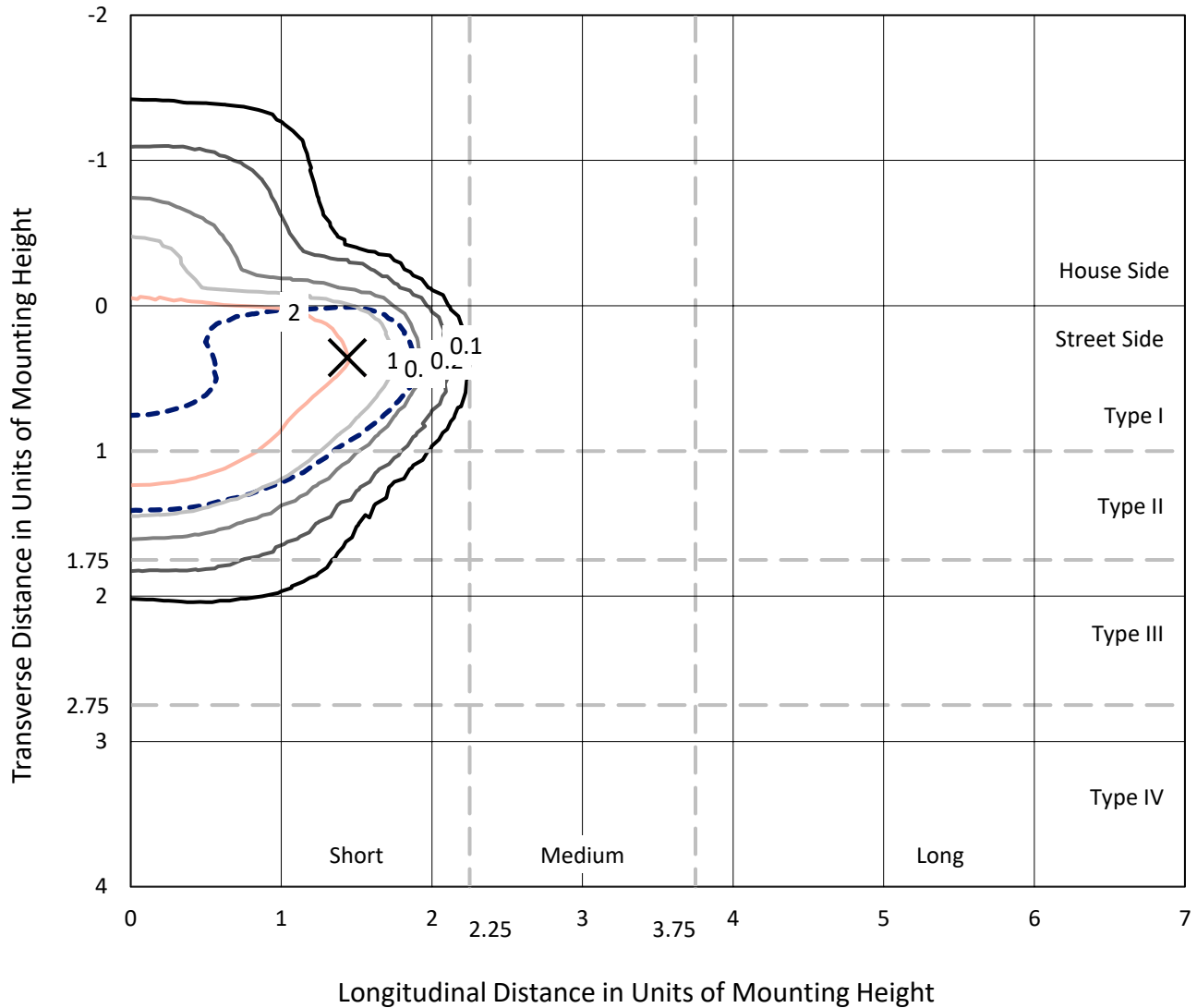
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

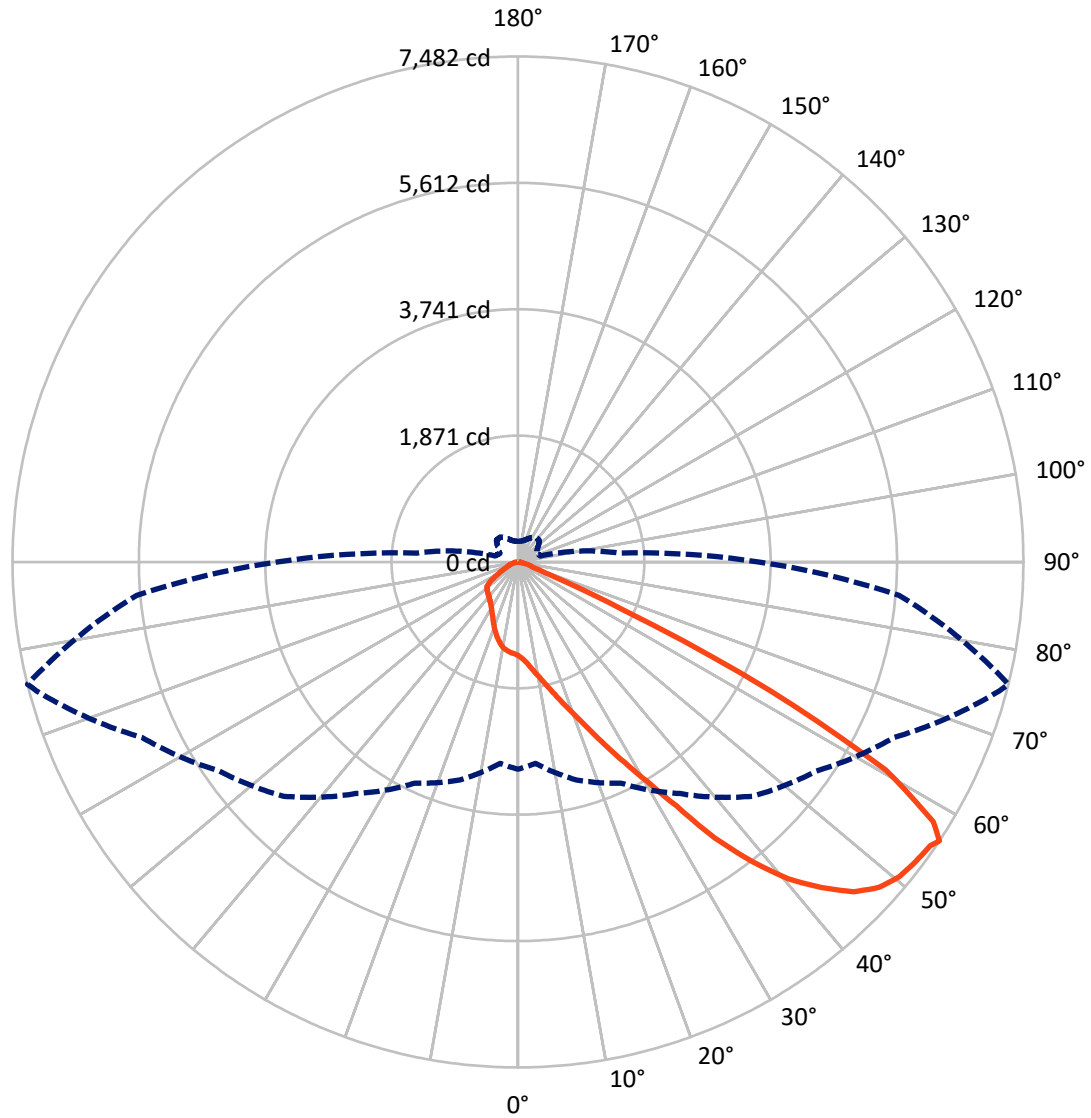
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1310.2	0.0	1310.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	7029.8	0.0	7029.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	8340.0	0.0	8340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	1.7
10°-20°	449.3	5.4
20°-30°	814.6	9.8
30°-40°	1404.9	16.8
40°-50°	2282.3	27.4
50°-60°	2405.6	28.8
60°-70°	735.0	8.8
70°-80°	94.2	1.1
80°-90°	14.3	0.2
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°	8340.0	100.0
0°-180°	8340.0	100.0

Coefficient of Utilization

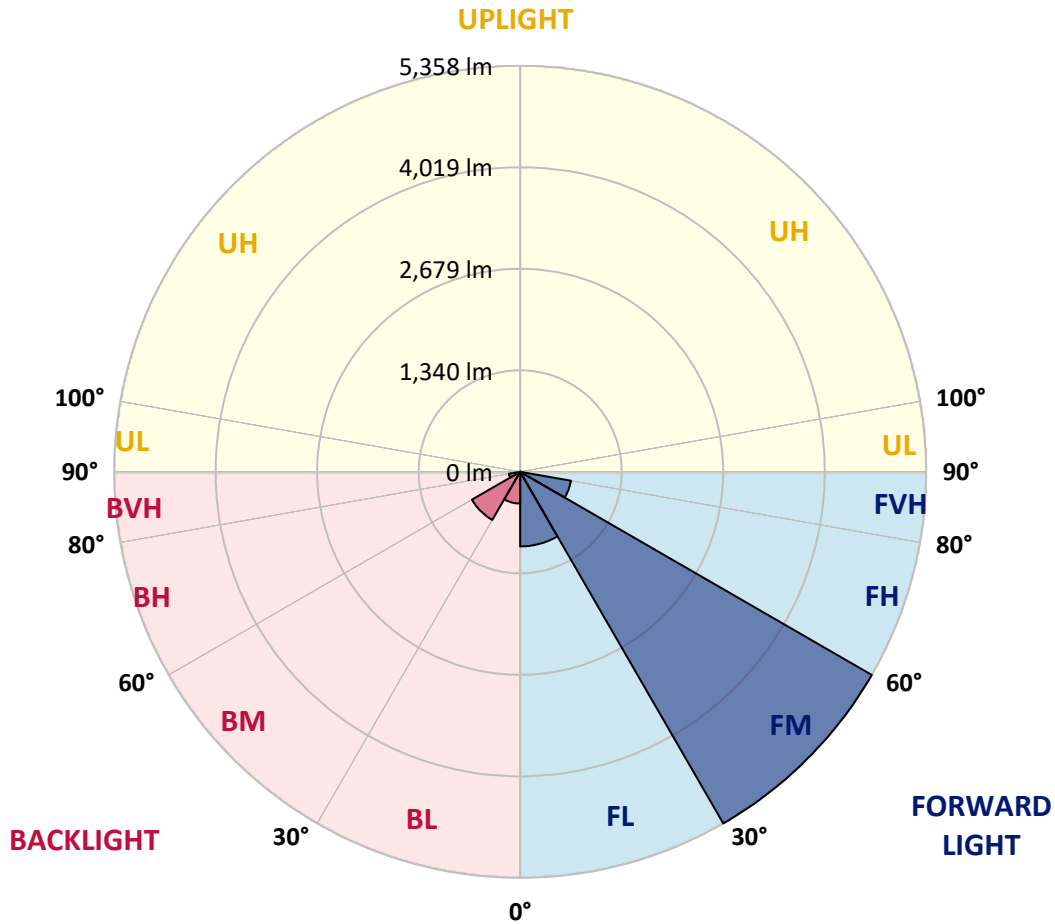


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.6	11.8			
FM (30°-60°)	5358.4	64.2			
FH (60°-80°)	679.8	8.2			G1/1800
FVH (80°-90°)	7.0	0.1			G0/10
BL (0°-30°)	419.1	5.0	B1/500		
BM (30°-60°)	734.3	8.8	B1/1000		
BH (60°-80°)	149.5	1.8	B1/500		G1/500
BVH (80°-90°)	7.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2
2.5°	1598.8	1561.9	1563.5	1560.4	1555.8	1538.9	1488.1	1480.4	1446.6	1437.4	1406.7
5°	1791.0	1758.7	1777.1	1749.5	1723.3	1708.0	1625.0	1586.5	1532.7	1512.7	1469.7
7.5°	1910.9	1895.5	1889.4	1890.9	1866.3	1827.9	1791.0	1706.4	1634.2	1618.8	1528.1
10°	1969.3	1960.1	1969.3	1964.7	1975.5	1980.1	1915.5	1864.8	1758.7	1732.6	1591.1
12.5°	1983.2	2001.6	2009.3	2029.3	2055.4	2100.0	2095.4	2026.2	1884.8	1867.9	1688.0
15°	2017.0	2032.3	2024.7	2056.9	2106.1	2181.5	2221.4	2210.7	2058.5	2027.7	1800.2
17.5°	2047.7	2020.0	2046.2	2110.7	2159.9	2275.2	2372.1	2416.7	2247.6	2212.2	1903.2
20°	2089.2	2081.5	2076.9	2109.2	2196.8	2350.6	2542.7	2624.2	2459.7	2422.8	2050.8
22.5°	2215.3	2216.8	2213.7	2166.1	2229.1	2402.8	2691.9	2893.2	2713.4	2682.6	2218.4
25°	2381.3	2361.3	2346.0	2307.5	2299.8	2450.5	2842.5	3222.2	3017.8	2996.2	2399.8
27.5°	2556.6	2556.6	2510.5	2475.1	2425.9	2568.9	2980.9	3542.0	3385.2	3356.0	2558.1
30°	2747.2	2758.0	2751.8	2676.5	2645.7	2698.0	3122.3	3950.9	3806.4	3769.5	2819.5
32.5°	3028.5	3005.5	3031.6	2968.6	2877.9	2924.0	3345.2	4316.8	4353.7	4301.4	3162.3
35°	3400.6	3386.7	3369.8	3266.8	3159.2	3196.1	3660.4	4767.2	5040.9	5014.8	3508.2
37.5°	3734.2	3726.5	3712.6	3641.9	3517.4	3562.0	4018.6	5236.1	5711.2	5625.1	3997.0
40°	4084.7	4126.2	4081.6	4018.6	3904.8	4003.2	4439.8	5514.4	6275.4	6170.8	4370.6
42.5°	4559.7	4527.4	4547.4	4432.1	4370.6	4478.2	4862.6	5792.6	6713.5	6589.0	4767.2
45°	5065.5	5067.0	5013.2	4976.3	4816.4	4933.3	5122.4	5946.4	7062.5	6965.6	5067.0
47.5°	5389.9	5388.3	5446.7	5505.2	5340.7	5225.4	5299.2	6092.4	7242.3	7197.8	5176.2
50°	5339.1	5354.5	5429.8	5648.1	5734.2	5579.0	5465.2	6049.4	7323.8	7319.2	5270.0
52.5°	4644.3	4695.0	4821.1	5136.2	5569.7	5761.9	5638.9	6129.3	7363.8	7371.5	5409.9
55°	3535.9	3563.5	3803.3	4186.1	4665.8	5323.8	5569.7	6192.3	7394.5	7408.4	5579.0
56°	3067.0	2993.2	3339.1	3611.2	4184.6	4904.1	5394.5	6143.2	7376.1	7482.2	5663.5
57.5°	2315.2	2266.0	2545.8	2885.6	3437.5	4196.9	4850.3	5911.0	7251.6	7250.0	5542.1
60°	1408.2	1359.0	1574.2	1774.1	2083.1	2584.2	3277.6	4707.3	6130.9	6260.0	4487.5
62.5°	837.8	868.6	1080.7	1202.2	1302.1	1354.4	1695.7	2797.9	4090.8	4183.1	2784.1
65°	558.0	568.8	728.7	928.5	973.1	774.8	690.3	1133.0	1774.1	1717.2	1148.4
67.5°	344.4	369.0	488.9	697.9	773.3	565.7	327.5	422.8	488.9	488.9	332.1
70°	209.1	221.4	325.9	475.0	530.4	364.3	238.3	238.3	235.2	230.6	198.3
72.5°	99.9	107.6	166.0	244.4	249.0	192.2	184.5	201.4	196.8	195.2	164.5
75°	43.0	46.1	58.4	76.9	87.6	81.5	112.2	144.5	149.1	144.5	118.4
77.5°	13.8	15.4	21.5	27.7	29.2	35.4	47.7	60.0	69.2	64.6	58.4
80°	1.5	3.1	6.1	13.8	21.5	27.7	35.4	40.0	44.6	44.6	41.5
82.5°	1.5	1.5	6.1	12.3	20.0	26.1	33.8	38.4	44.6	46.1	43.0
85°	0.0	1.5	4.6	10.8	16.9	16.9	15.4	15.4	10.8	10.8	10.8
87.5°	0.0	0.0	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1
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°	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2	1388.2
2.5°	1400.5	1397.4	1355.9	1329.8	1316.0	1288.3	1271.4	1259.1	1249.8	1239.1	1240.6
5°	1419.0	1408.2	1339.0	1291.4	1234.5	1203.7	1177.6	1156.1	1142.2	1139.2	1133.0
7.5°	1471.2	1414.3	1309.8	1223.7	1151.5	1120.7	1097.7	1083.8	1090.0	1076.1	1086.9
10°	1511.2	1426.6	1274.4	1149.9	1077.7	1054.6	1042.3	1053.1	1068.4	1062.3	1054.6
12.5°	1560.4	1438.9	1217.6	1079.2	1011.6	994.7	1016.2	1036.2	1066.9	1079.2	1063.8
15°	1615.7	1452.8	1145.3	997.7	954.7	968.5	1005.4	1040.8	1071.5	1086.9	1096.1
17.5°	1683.4	1448.2	1074.6	933.2	900.9	940.8	985.4	1017.7	1063.8	1086.9	1080.7
20°	1746.4	1432.8	996.2	868.6	870.1	907.0	943.9	996.2	1020.8	1051.5	1040.8
22.5°	1806.4	1405.1	914.7	824.0	824.0	880.9	899.3	933.2	954.7	970.1	968.5
25°	1890.9	1352.8	847.1	781.0	799.4	836.3	851.7	862.4	853.2	865.5	867.1
27.5°	1950.9	1299.0	791.7	742.5	776.3	804.0	799.4	793.3	771.7	754.8	765.6
30°	2015.4	1236.0	744.1	716.4	734.8	759.4	741.0	722.5	688.7	661.1	662.6
32.5°	2107.7	1206.8	702.6	685.6	710.2	713.3	693.3	665.7	631.8	605.7	604.2
35°	2279.9	1188.4	667.2	665.7	670.3	671.8	651.8	618.0	604.2	582.6	590.3
37.5°	2452.0	1179.1	642.6	636.5	634.9	636.5	613.4	581.1	607.2	605.7	608.8
40°	2671.9	1220.6	607.2	599.6	601.1	601.1	571.9	562.7	608.8	613.4	614.9
42.5°	2894.8	1272.9	584.2	559.6	565.7	565.7	550.4	539.6	571.9	541.1	536.5
45°	3088.5	1349.8	559.6	519.6	535.0	542.7	538.1	519.6	499.6	447.4	447.4
47.5°	3151.5	1417.4	530.4	481.2	493.5	527.3	513.5	475.0	439.7	396.6	393.6
50°	3262.2	1491.2	507.3	436.6	462.7	504.2	490.4	452.0	412.0	381.3	382.8
52.5°	3376.0	1575.8	464.3	384.3	416.6	485.8	485.8	442.7	381.3	359.7	356.7
55°	3546.6	1572.7	387.4	315.2	372.0	458.1	465.8	396.6	341.3	324.4	324.4
56°	3571.2	1502.0	349.0	295.2	352.0	450.4	452.0	384.3	325.9	307.5	307.5
57.5°	3386.7	1355.9	305.9	270.6	327.5	436.6	438.1	373.6	313.6	287.5	284.4
60°	2605.8	917.8	255.2	241.4	296.7	393.6	401.2	339.7	275.2	255.2	253.7
62.5°	1471.2	508.9	224.4	218.3	255.2	335.1	358.2	296.7	233.7	222.9	226.0
65°	671.8	279.8	189.1	176.8	206.0	258.3	289.0	244.4	192.2	179.9	179.9
67.5°	246.0	190.6	161.4	139.9	144.5	167.6	187.6	158.3	127.6	109.2	113.8
70°	175.3	159.9	141.4	121.4	112.2	109.2	107.6	89.2	63.0	49.2	52.3
72.5°	141.4	132.2	118.4	103.0	87.6	73.8	63.0	46.1	29.2	20.0	18.4
75°	101.5	96.9	86.1	73.8	61.5	52.3	43.0	29.2	15.4	7.7	7.7
77.5°	52.3	52.3	50.7	46.1	38.4	30.7	24.6	16.9	9.2	3.1	3.1
80°	40.0	43.0	44.6	40.0	35.4	27.7	20.0	12.3	6.1	1.5	1.5
82.5°	38.4	44.6	47.7	41.5	35.4	26.1	20.0	12.3	6.1	1.5	1.5
85°	9.2	9.2	13.8	15.4	20.0	21.5	16.9	10.8	4.6	1.5	1.5
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	1.5	1.5	1.5	1.5	0.0
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)