

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: P527277

Luminaire Tested: **GALN-SA2B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527277
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-SA2B-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 6288 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

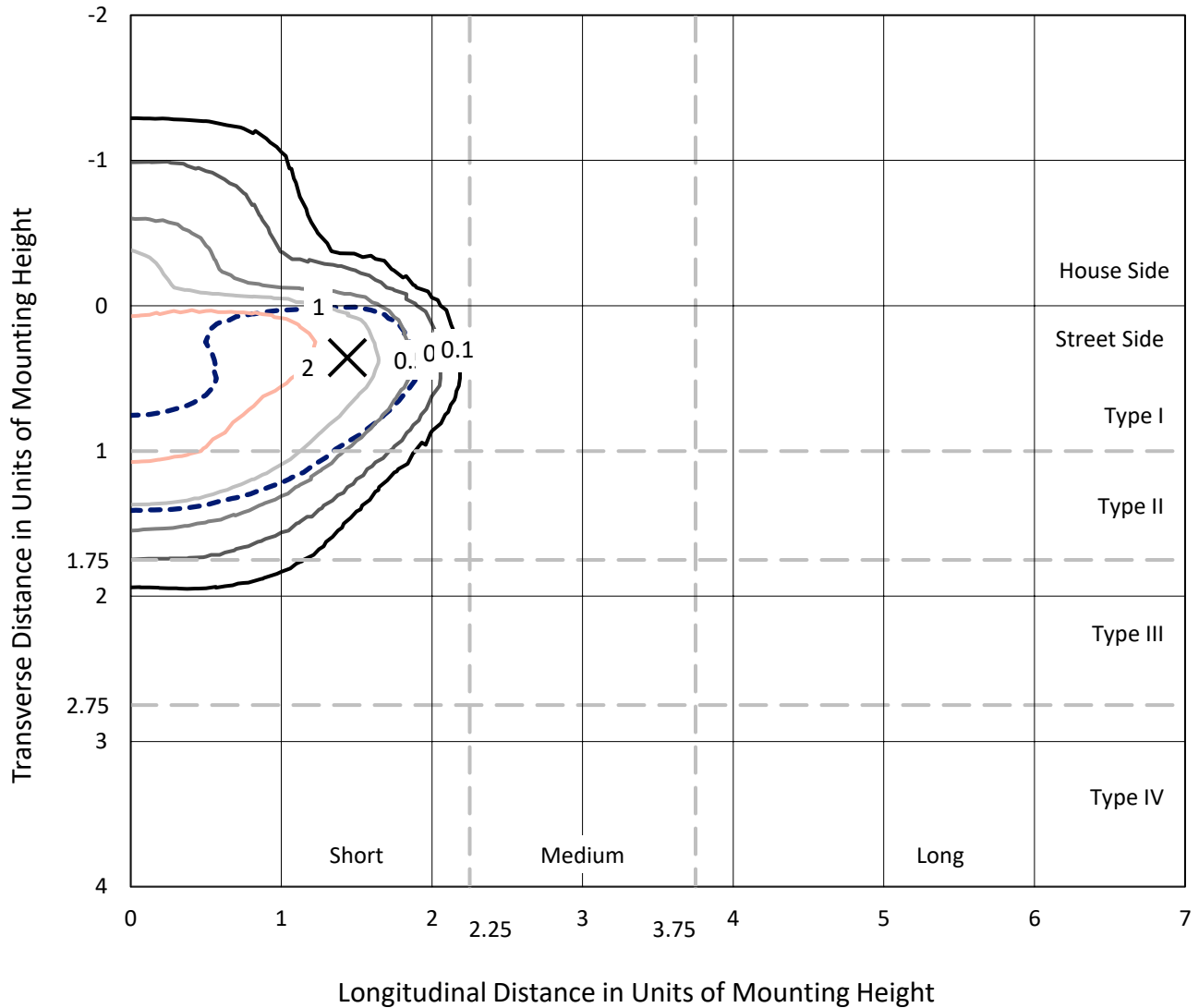
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

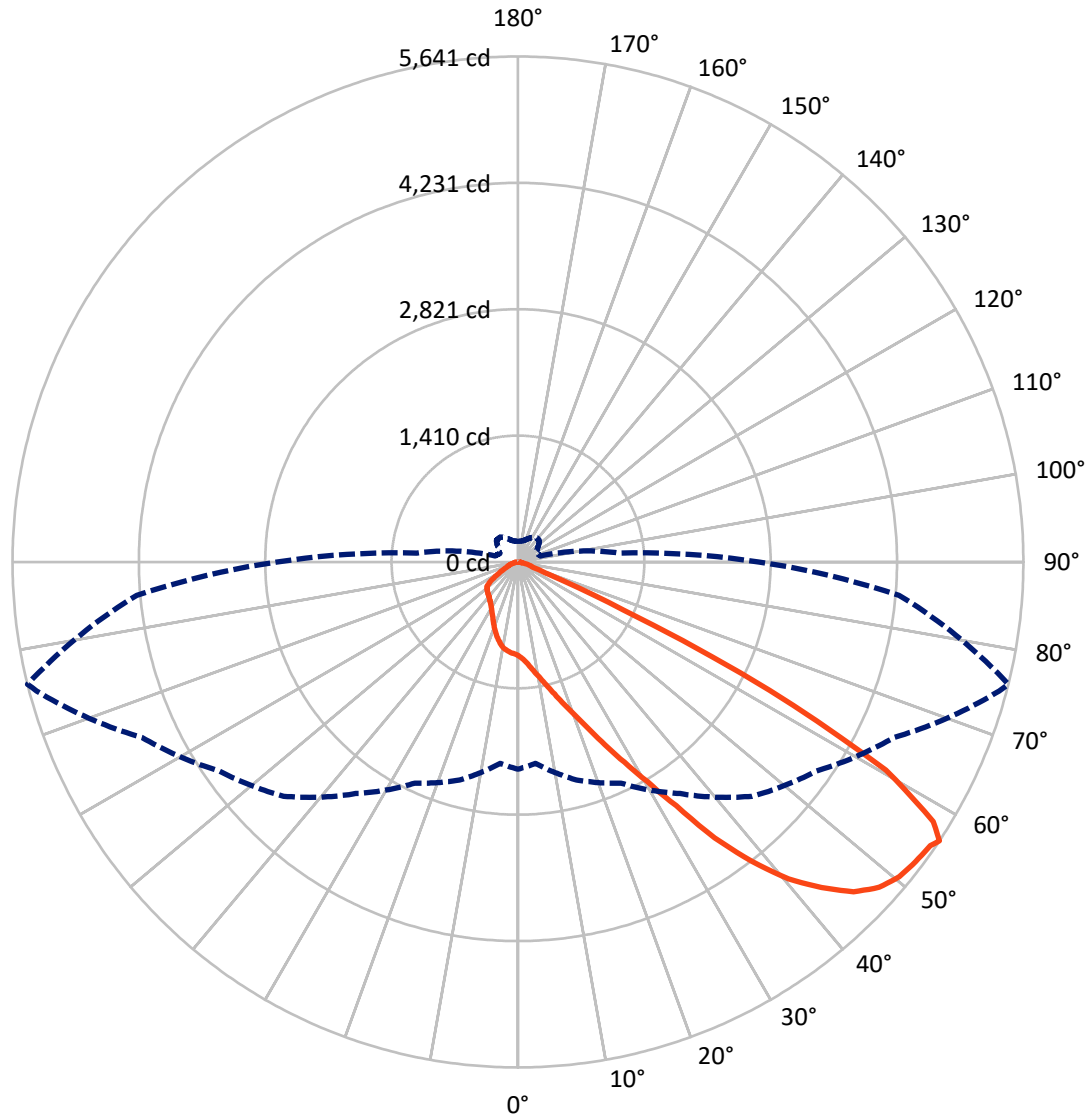
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	987.8	0.0	987.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5300.2	0.0	5300.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	6288.0	0.0	6288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.7
10°-20°	338.7	5.4
20°-30°	614.2	9.8
30°-40°	1059.2	16.8
40°-50°	1720.7	27.4
50°-60°	1813.7	28.8
60°-70°	554.2	8.8
70°-80°	71.0	1.1
80°-90°	10.8	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°	6288.0	100.0
0°-180°	6288.0	100.0

Coefficient of Utilization

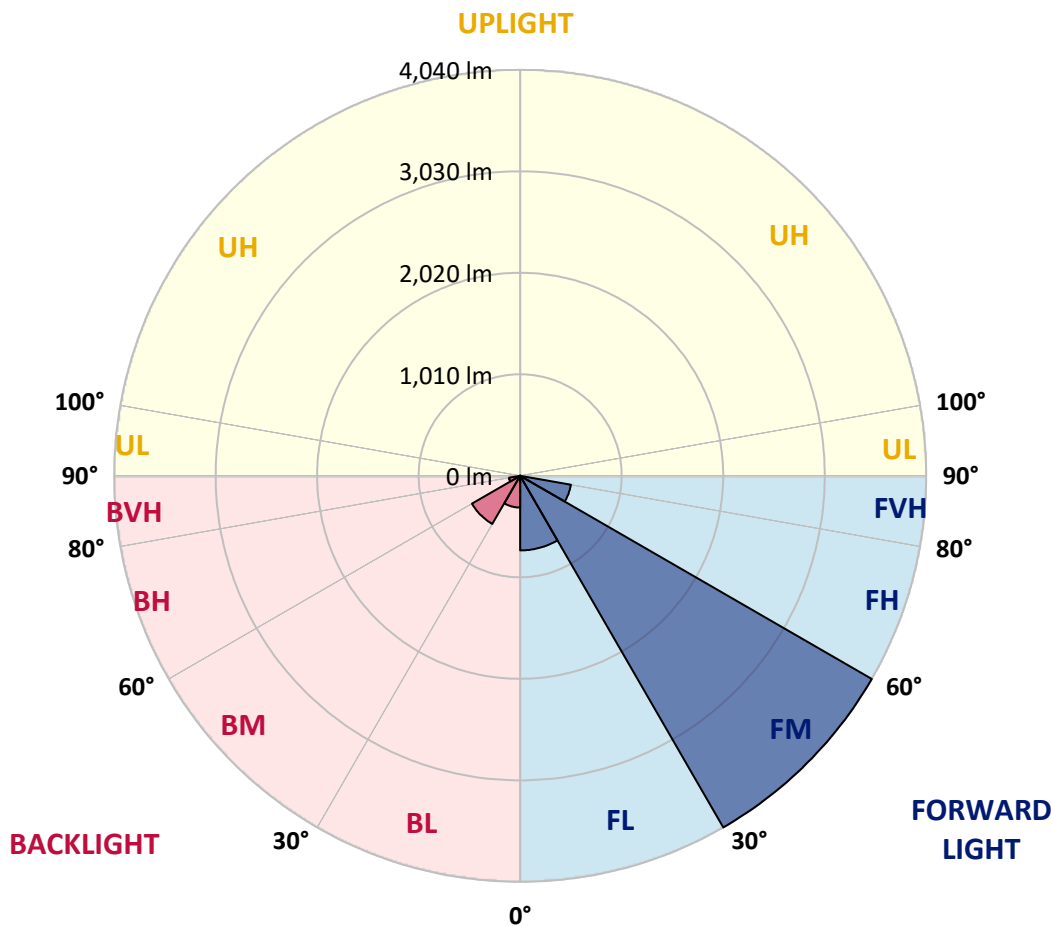


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.4	11.8			
FM (30°-60°)	4040.0	64.2			
FH (60°-80°)	512.5	8.2			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	316.0	5.0	B1/500		
BM (30°-60°)	553.6	8.8	B1/1000		
BH (60°-80°)	112.7	1.8	B1/500		G1/500
BVH (80°-90°)	5.5	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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1205.4	1177.6	1178.8	1176.5	1173.0	1160.2	1122.0	1116.2	1090.7	1083.7	1060.6
5°	1350.3	1326.0	1339.9	1319.0	1299.3	1287.7	1225.1	1196.2	1155.6	1140.5	1108.1
7.5°	1440.7	1429.1	1424.5	1425.7	1407.1	1378.1	1350.3	1286.6	1232.1	1220.5	1152.1
10°	1484.8	1477.8	1484.8	1481.3	1489.4	1492.9	1444.2	1406.0	1326.0	1306.3	1199.6
12.5°	1495.2	1509.1	1514.9	1530.0	1549.7	1583.3	1579.8	1527.7	1421.0	1408.3	1272.7
15°	1520.7	1532.3	1526.5	1550.8	1587.9	1644.7	1674.9	1666.8	1552.0	1528.8	1357.3
17.5°	1543.9	1523.0	1542.7	1591.4	1628.5	1715.4	1788.5	1822.1	1694.6	1667.9	1434.9
20°	1575.2	1569.4	1565.9	1590.3	1656.3	1772.2	1917.1	1978.5	1854.5	1826.7	1546.2
22.5°	1670.2	1671.4	1669.1	1633.1	1680.7	1811.6	2029.5	2181.4	2045.8	2022.6	1672.5
25°	1795.4	1780.3	1768.8	1739.8	1734.0	1847.6	2143.1	2429.4	2275.3	2259.0	1809.3
27.5°	1927.5	1927.5	1892.8	1866.1	1829.0	1936.8	2247.5	2670.5	2552.3	2530.3	1928.7
30°	2071.3	2079.4	2074.7	2018.0	1994.8	2034.2	2354.1	2978.8	2869.9	2842.1	2125.7
32.5°	2283.4	2266.0	2285.7	2238.2	2169.8	2204.6	2522.2	3254.7	3282.5	3243.1	2384.2
35°	2563.9	2553.4	2540.7	2463.0	2381.9	2409.7	2759.8	3594.3	3800.6	3780.9	2645.0
37.5°	2815.4	2809.6	2799.2	2745.9	2652.0	2685.6	3029.8	3947.8	4306.0	4241.1	3013.6
40°	3079.7	3111.0	3077.4	3029.8	2944.1	3018.2	3347.4	4157.6	4731.4	4652.5	3295.3
42.5°	3437.8	3413.5	3428.6	3341.6	3295.3	3376.4	3666.2	4367.4	5061.7	4967.8	3594.3
45°	3819.2	3820.3	3779.8	3751.9	3631.4	3719.5	3862.0	4483.3	5324.8	5251.8	3820.3
47.5°	4063.7	4062.6	4106.6	4150.7	4026.6	3939.7	3995.3	4593.4	5460.4	5426.8	3902.6
50°	4025.5	4037.1	4093.9	4258.5	4323.4	4206.3	4120.5	4561.0	5521.8	5518.4	3973.3
52.5°	3501.6	3539.8	3634.9	3872.5	4199.3	4344.2	4251.5	4621.2	5552.0	5557.8	4078.8
55°	2665.9	2686.7	2867.6	3156.2	3517.8	4013.9	4199.3	4668.8	5575.2	5585.6	4206.3
56°	2312.4	2256.7	2517.5	2722.7	3155.0	3697.5	4067.2	4631.7	5561.3	5641.2	4270.0
57.5°	1745.6	1708.5	1919.4	2175.6	2591.7	3164.3	3656.9	4456.7	5467.4	5466.2	4178.5
60°	1061.7	1024.6	1186.9	1337.6	1570.6	1948.4	2471.2	3549.1	4622.4	4719.8	3383.3
62.5°	631.7	654.9	814.8	906.4	981.7	1021.1	1278.5	2109.5	3084.3	3153.9	2099.1
65°	420.7	428.9	549.4	700.1	733.7	584.2	520.4	854.2	1337.6	1294.7	865.8
67.5°	259.6	278.2	368.6	526.2	583.0	426.5	246.9	318.7	368.6	368.6	250.4
70°	157.6	166.9	245.7	358.2	399.9	274.7	179.7	179.7	177.3	173.9	149.5
72.5°	75.3	81.1	125.2	184.3	187.8	144.9	139.1	151.8	148.4	147.2	124.0
75°	32.5	34.8	44.0	58.0	66.1	61.4	84.6	109.0	112.4	109.0	89.2
77.5°	10.4	11.6	16.2	20.9	22.0	26.7	35.9	45.2	52.2	48.7	44.0
80°	1.2	2.3	4.6	10.4	16.2	20.9	26.7	30.1	33.6	33.6	31.3
82.5°	1.2	1.2	4.6	9.3	15.1	19.7	25.5	29.0	33.6	34.8	32.5
85°	0.0	1.2	3.5	8.1	12.7	12.7	11.6	11.6	8.1	8.1	8.1
87.5°	0.0	0.0	1.2	1.2	1.2	2.3	2.3	2.3	2.3	2.3	2.3
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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1055.9	1053.6	1022.3	1002.6	992.2	971.3	958.6	949.3	942.3	934.2	935.4
5°	1069.8	1061.7	1009.6	973.6	930.7	907.6	887.9	871.6	861.2	858.9	854.2
7.5°	1109.2	1066.4	987.5	922.6	868.1	845.0	827.6	817.1	821.8	811.4	819.5
10°	1139.4	1075.6	960.9	867.0	812.5	795.1	785.9	794.0	805.6	800.9	795.1
12.5°	1176.5	1084.9	918.0	813.7	762.7	749.9	766.2	781.2	804.4	813.7	802.1
15°	1218.2	1095.3	863.5	752.2	719.8	730.2	758.0	784.7	807.9	819.5	826.4
17.5°	1269.2	1091.9	810.2	703.6	679.2	709.4	743.0	767.3	802.1	819.5	814.8
20°	1316.7	1080.3	751.1	654.9	656.0	683.9	711.7	751.1	769.6	792.8	784.7
22.5°	1361.9	1059.4	689.7	621.3	621.3	664.2	678.1	703.6	719.8	731.4	730.2
25°	1425.7	1020.0	638.7	588.8	602.7	630.5	642.1	650.2	643.3	652.6	653.7
27.5°	1470.9	979.4	596.9	559.8	585.3	606.2	602.7	598.1	581.9	569.1	577.2
30°	1519.6	931.9	561.0	540.1	554.0	572.6	558.7	544.8	519.3	498.4	499.6
32.5°	1589.1	909.9	529.7	516.9	535.5	537.8	522.7	501.9	476.4	456.7	455.5
35°	1718.9	896.0	503.0	501.9	505.4	506.5	491.4	465.9	455.5	439.3	445.1
37.5°	1848.7	889.0	484.5	479.9	478.7	479.9	462.5	438.1	457.8	456.7	459.0
40°	2014.5	920.3	457.8	452.0	453.2	453.2	431.2	424.2	459.0	462.5	463.6
42.5°	2182.5	959.7	440.4	421.9	426.5	426.5	414.9	406.8	431.2	408.0	404.5
45°	2328.6	1017.7	421.9	391.8	403.4	409.2	405.7	391.8	376.7	337.3	337.3
47.5°	2376.1	1068.7	399.9	362.8	372.1	397.6	387.1	358.2	331.5	299.0	296.7
50°	2459.6	1124.3	382.5	329.2	348.9	380.2	369.7	340.8	310.6	287.5	288.6
52.5°	2545.3	1188.1	350.0	289.8	314.1	366.3	366.3	333.8	287.5	271.2	268.9
55°	2674.0	1185.7	292.1	237.6	280.5	345.4	351.2	299.0	257.3	244.6	244.6
56°	2692.5	1132.4	263.1	222.5	265.4	339.6	340.8	289.8	245.7	231.8	231.8
57.5°	2553.4	1022.3	230.7	204.0	246.9	329.2	330.3	281.7	236.5	216.7	214.4
60°	1964.6	692.0	192.4	182.0	223.7	296.7	302.5	256.2	207.5	192.4	191.2
62.5°	1109.2	383.7	169.2	164.6	192.4	252.7	270.1	223.7	176.2	168.1	170.4
65°	506.5	211.0	142.6	133.3	155.3	194.7	217.9	184.3	144.9	135.6	135.6
67.5°	185.5	143.7	121.7	105.5	109.0	126.3	141.4	119.4	96.2	82.3	85.8
70°	132.1	120.5	106.6	91.6	84.6	82.3	81.1	67.2	47.5	37.1	39.4
72.5°	106.6	99.7	89.2	77.7	66.1	55.6	47.5	34.8	22.0	15.1	13.9
75°	76.5	73.0	64.9	55.6	46.4	39.4	32.5	22.0	11.6	5.8	5.8
77.5°	39.4	39.4	38.2	34.8	29.0	23.2	18.5	12.7	7.0	2.3	2.3
80°	30.1	32.5	33.6	30.1	26.7	20.9	15.1	9.3	4.6	1.2	1.2
82.5°	29.0	33.6	35.9	31.3	26.7	19.7	15.1	9.3	4.6	1.2	1.2
85°	7.0	7.0	10.4	11.6	15.1	16.2	12.7	8.1	3.5	1.2	1.2
87.5°	2.3	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	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)