

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: P527927

Luminaire Tested: **GALN-SA3A-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527927
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-SA3A-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 6735 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

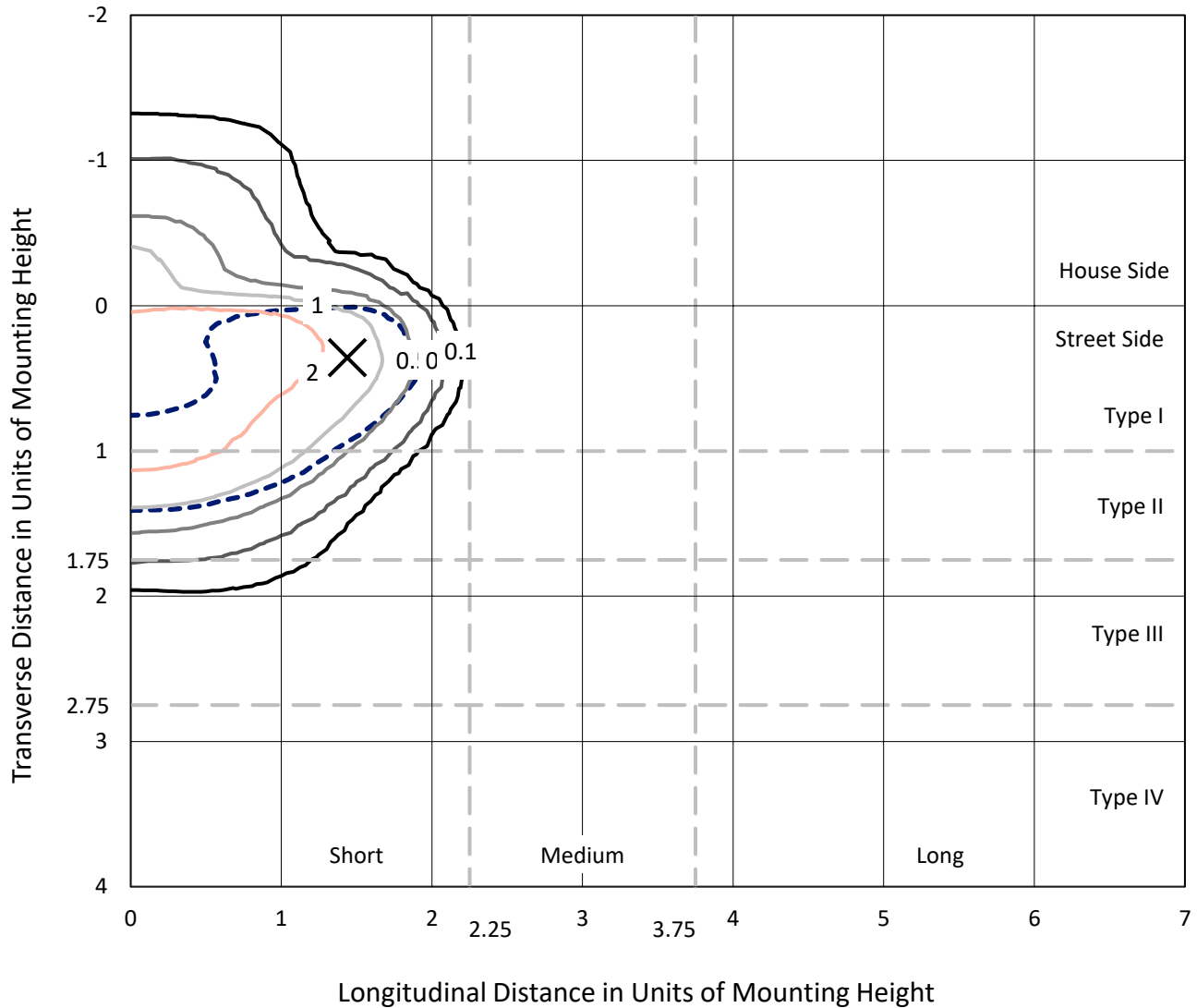
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

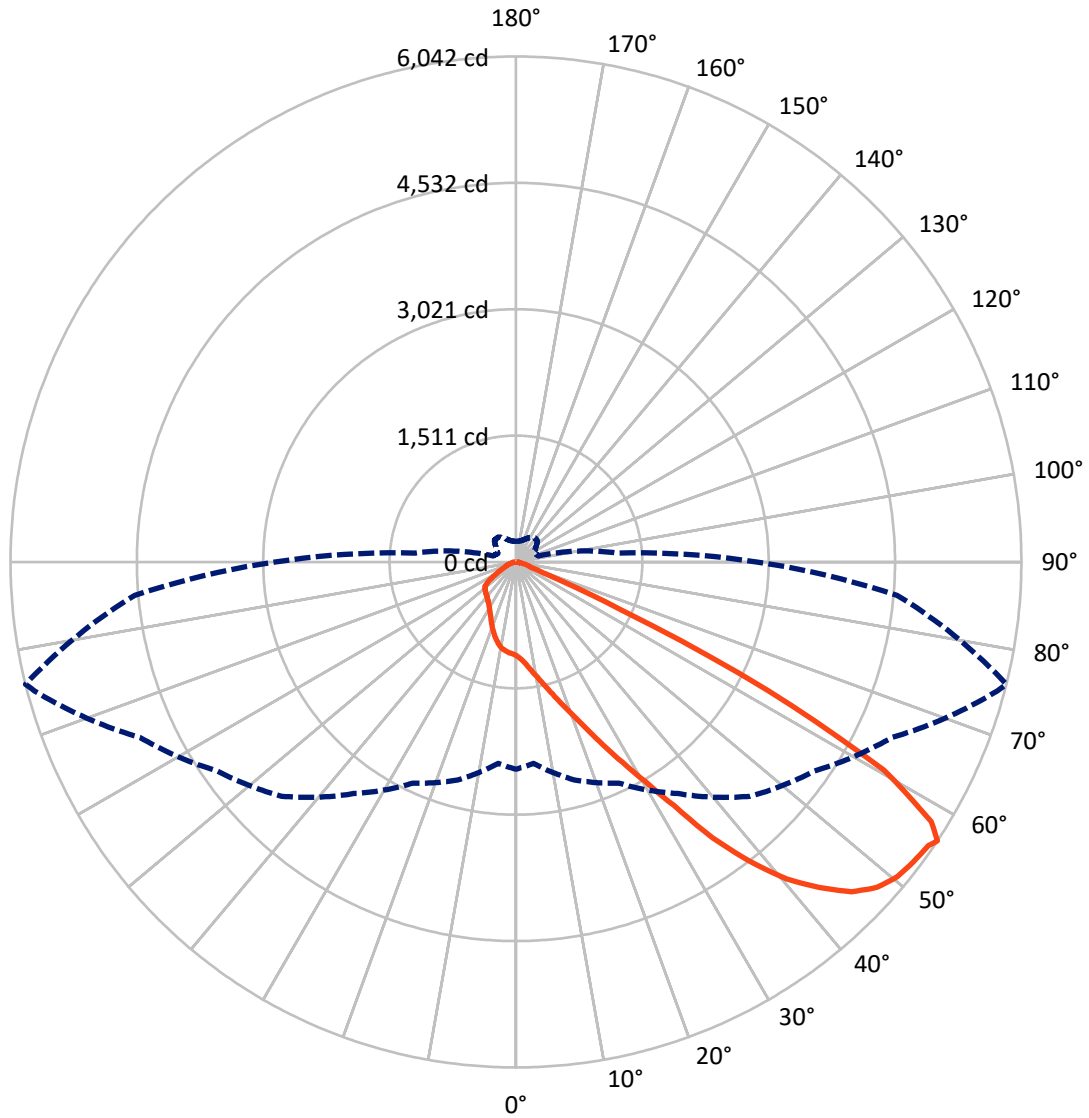
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	1058.0	0.0	1058.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	5677.0	0.0	5677.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	6735.0	0.0	6735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	1.7
10°-20°	362.8	5.4
20°-30°	657.9	9.8
30°-40°	1134.5	16.8
40°-50°	1843.0	27.4
50°-60°	1942.6	28.8
60°-70°	593.6	8.8
70°-80°	76.1	1.1
80°-90°	11.6	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°	6735.0	100.0
0°-180°	6735.0	100.0

Coefficient of Utilization

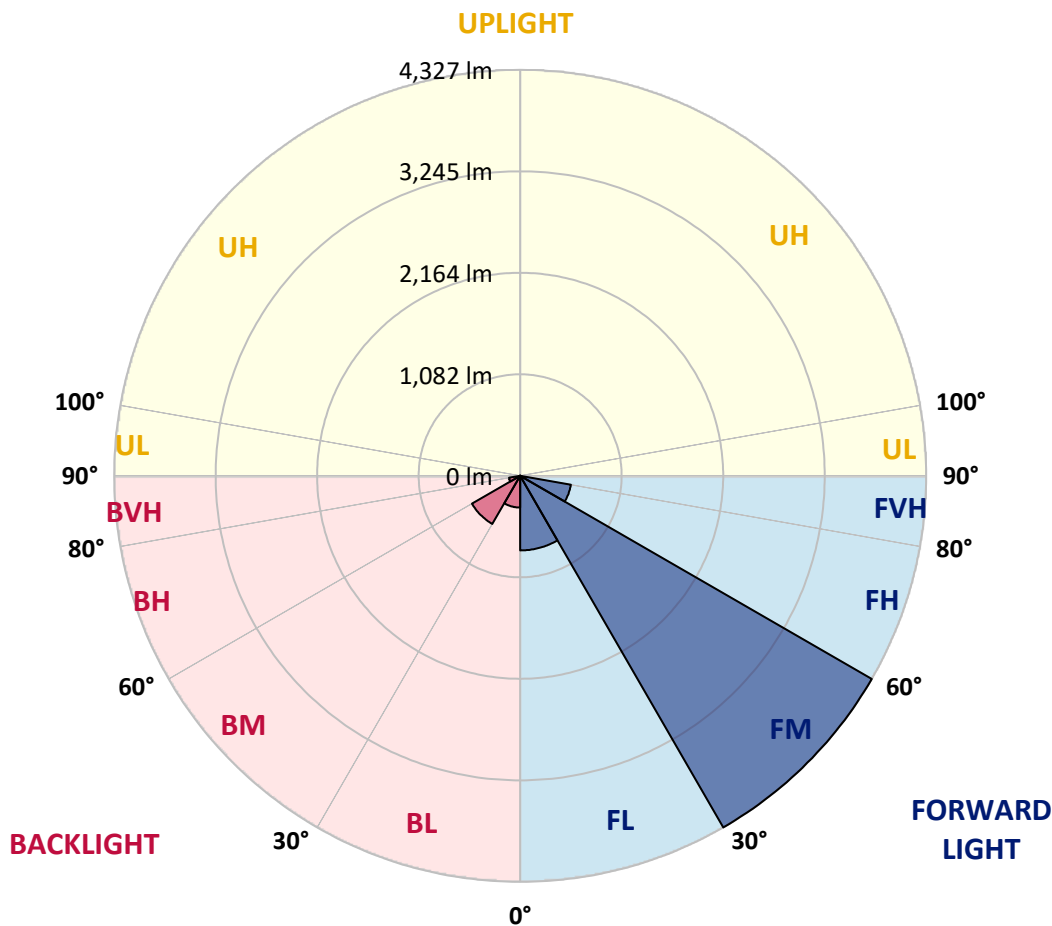


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.1	11.8			
FM (30°-60°)	4327.2	64.2			
FH (60°-80°)	548.9	8.2			G0/660
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	338.5	5.0	B1/500		
BM (30°-60°)	593.0	8.8	B1/1000		
BH (60°-80°)	120.7	1.8	B1/500		G1/500
BVH (80°-90°)	5.9	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°	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1
2.5°	1291.1	1261.3	1262.6	1260.1	1256.4	1242.7	1201.7	1195.5	1168.2	1160.8	1135.9
5°	1446.3	1420.2	1435.1	1412.8	1391.7	1379.3	1312.2	1281.2	1237.7	1221.6	1186.8
7.5°	1543.2	1530.7	1525.8	1527.0	1507.1	1476.1	1446.3	1378.0	1319.7	1307.3	1234.0
10°	1590.3	1582.9	1590.3	1586.6	1595.3	1599.0	1546.9	1505.9	1420.2	1399.1	1284.9
12.5°	1601.5	1616.4	1622.6	1638.7	1659.9	1695.9	1692.1	1636.3	1522.0	1508.4	1363.1
15°	1628.8	1641.2	1635.0	1661.1	1700.8	1761.7	1793.9	1785.2	1662.3	1637.5	1453.8
17.5°	1653.6	1631.3	1652.4	1704.5	1744.3	1837.4	1915.6	1951.6	1815.0	1786.5	1536.9
20°	1687.2	1681.0	1677.2	1703.3	1774.1	1898.2	2053.4	2119.2	1986.4	1956.6	1656.1
22.5°	1789.0	1790.2	1787.7	1749.2	1800.1	1940.4	2173.8	2336.5	2191.2	2166.4	1791.4
25°	1923.0	1906.9	1894.5	1863.5	1857.2	1978.9	2295.5	2602.1	2437.0	2419.6	1937.9
27.5°	2064.6	2064.6	2027.3	1998.8	1959.0	2074.5	2407.2	2860.4	2733.7	2710.1	2065.8
30°	2218.5	2227.2	2222.2	2161.4	2136.6	2178.8	2521.4	3190.6	3073.9	3044.1	2276.9
32.5°	2445.7	2427.1	2448.2	2397.3	2324.0	2361.3	2701.4	3486.1	3515.9	3473.6	2553.7
35°	2746.1	2735.0	2721.3	2638.1	2551.2	2581.0	2955.9	3849.8	4070.8	4049.7	2833.0
37.5°	3015.5	3009.3	2998.2	2941.1	2840.5	2876.5	3245.2	4228.5	4612.1	4542.6	3227.8
40°	3298.6	3332.1	3296.1	3245.2	3153.3	3232.8	3585.4	4453.2	5067.7	4983.3	3529.5
42.5°	3682.2	3656.1	3672.3	3579.2	3529.5	3616.4	3926.8	4677.9	5421.5	5321.0	3849.8
45°	4090.7	4091.9	4048.4	4018.7	3889.5	3983.9	4136.6	4802.0	5703.3	5625.1	4091.9
47.5°	4352.6	4351.4	4398.5	4445.7	4312.9	4219.8	4279.4	4920.0	5848.6	5812.6	4180.0
50°	4311.6	4324.1	4384.9	4561.2	4630.7	4505.3	4413.4	4885.2	5914.4	5910.7	4255.8
52.5°	3750.5	3791.5	3893.3	4147.8	4497.9	4653.0	4553.7	4949.8	5946.7	5952.9	4368.7
55°	2855.4	2877.7	3071.4	3380.5	3767.9	4299.2	4497.9	5000.7	5971.5	5982.7	4505.3
56°	2476.7	2417.1	2696.5	2916.2	3379.3	3960.3	4356.3	4960.9	5956.6	6042.3	4573.6
57.5°	1869.7	1829.9	2055.9	2330.2	2775.9	3389.2	3916.8	4773.5	5856.0	5854.8	4475.5
60°	1137.2	1097.5	1271.3	1432.7	1682.2	2086.9	2646.8	3801.4	4951.0	5055.3	3623.9
62.5°	676.6	701.4	872.8	970.8	1051.5	1093.7	1369.3	2259.5	3303.6	3378.1	2248.3
65°	450.7	459.3	588.5	749.9	785.9	625.7	557.4	915.0	1432.7	1386.7	927.4
67.5°	278.1	298.0	394.8	563.6	624.5	456.9	264.4	341.4	394.8	394.8	268.2
70°	168.8	178.8	263.2	383.6	428.3	294.2	192.4	192.4	189.9	186.2	160.2
72.5°	80.7	86.9	134.1	197.4	201.1	155.2	149.0	162.6	158.9	157.7	132.8
75°	34.8	37.2	47.2	62.1	70.8	65.8	90.6	116.7	120.4	116.7	95.6
77.5°	11.2	12.4	17.4	22.3	23.6	28.6	38.5	48.4	55.9	52.1	47.2
80°	1.2	2.5	5.0	11.2	17.4	22.3	28.6	32.3	36.0	36.0	33.5
82.5°	1.2	1.2	5.0	9.9	16.1	21.1	27.3	31.0	36.0	37.2	34.8
85°	0.0	1.2	3.7	8.7	13.7	13.7	12.4	12.4	8.7	8.7	8.7
87.5°	0.0	0.0	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1	1121.1
2.5°	1131.0	1128.5	1095.0	1073.9	1062.7	1040.4	1026.7	1016.8	1009.3	1000.6	1001.9
5°	1145.9	1137.2	1081.3	1042.8	996.9	972.1	951.0	933.6	922.4	919.9	915.0
7.5°	1188.1	1142.2	1057.7	988.2	929.9	905.0	886.4	875.2	880.2	869.0	877.7
10°	1220.4	1152.1	1029.2	928.6	870.3	851.7	841.7	850.4	862.8	857.9	851.7
12.5°	1260.1	1162.0	983.2	871.5	816.9	803.2	820.6	836.8	861.6	871.5	859.1
15°	1304.8	1173.2	924.9	805.7	771.0	782.1	811.9	840.5	865.3	877.7	885.2
17.5°	1359.4	1169.5	867.8	753.6	727.5	759.8	795.8	821.9	859.1	877.7	872.8
20°	1410.3	1157.1	804.5	701.4	702.7	732.5	762.3	804.5	824.3	849.2	840.5
22.5°	1458.7	1134.7	738.7	665.4	665.4	711.4	726.3	753.6	771.0	783.4	782.1
25°	1527.0	1092.5	684.1	630.7	645.6	675.4	687.8	696.5	689.0	698.9	700.2
27.5°	1575.4	1049.0	639.4	599.6	626.9	649.3	645.6	640.6	623.2	609.6	618.3
30°	1627.6	998.1	600.9	578.5	593.4	613.3	598.4	583.5	556.2	533.8	535.1
32.5°	1702.1	974.6	567.4	553.7	573.6	576.0	559.9	537.6	510.2	489.1	487.9
35°	1841.1	959.7	538.8	537.6	541.3	542.5	526.4	499.1	487.9	470.5	476.7
37.5°	1980.2	952.2	518.9	514.0	512.7	514.0	495.3	469.3	490.4	489.1	491.6
40°	2157.7	985.7	490.4	484.2	485.4	485.4	461.8	454.4	491.6	495.3	496.6
42.5°	2337.7	1027.9	471.8	451.9	456.9	456.9	444.4	435.8	461.8	437.0	433.3
45°	2494.1	1090.0	451.9	419.6	432.0	438.2	434.5	419.6	403.5	361.3	361.3
47.5°	2545.0	1144.6	428.3	388.6	398.5	425.8	414.7	383.6	355.1	320.3	317.8
50°	2634.4	1204.2	409.7	352.6	373.7	407.2	396.0	365.0	332.7	307.9	309.1
52.5°	2726.3	1272.5	374.9	310.4	336.4	392.3	392.3	357.5	307.9	290.5	288.0
55°	2864.1	1270.0	312.9	254.5	300.4	370.0	376.2	320.3	275.6	262.0	262.0
56°	2883.9	1212.9	281.8	238.4	284.3	363.8	365.0	310.4	263.2	248.3	248.3
57.5°	2735.0	1095.0	247.1	218.5	264.4	352.6	353.8	301.7	253.3	232.2	229.7
60°	2104.3	741.2	206.1	194.9	239.6	317.8	324.0	274.4	222.2	206.1	204.8
62.5°	1188.1	410.9	181.3	176.3	206.1	270.6	289.3	239.6	188.7	180.0	182.5
65°	542.5	225.9	152.7	142.8	166.4	208.6	233.4	197.4	155.2	145.3	145.3
67.5°	198.6	153.9	130.4	113.0	116.7	135.3	151.5	127.9	103.0	88.1	91.9
70°	141.5	129.1	114.2	98.1	90.6	88.1	86.9	72.0	50.9	39.7	42.2
72.5°	114.2	106.8	95.6	83.2	70.8	59.6	50.9	37.2	23.6	16.1	14.9
75°	81.9	78.2	69.5	59.6	49.7	42.2	34.8	23.6	12.4	6.2	6.2
77.5°	42.2	42.2	41.0	37.2	31.0	24.8	19.9	13.7	7.4	2.5	2.5
80°	32.3	34.8	36.0	32.3	28.6	22.3	16.1	9.9	5.0	1.2	1.2
82.5°	31.0	36.0	38.5	33.5	28.6	21.1	16.1	9.9	5.0	1.2	1.2
85°	7.4	7.4	11.2	12.4	16.1	17.4	13.7	8.7	3.7	1.2	1.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	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)