

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: P527043

Luminaire Tested: **GALN-SA2A-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527043
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-SA2A-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 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: 5054 lumens
Efficiency: N/A
Efficacy: 80.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

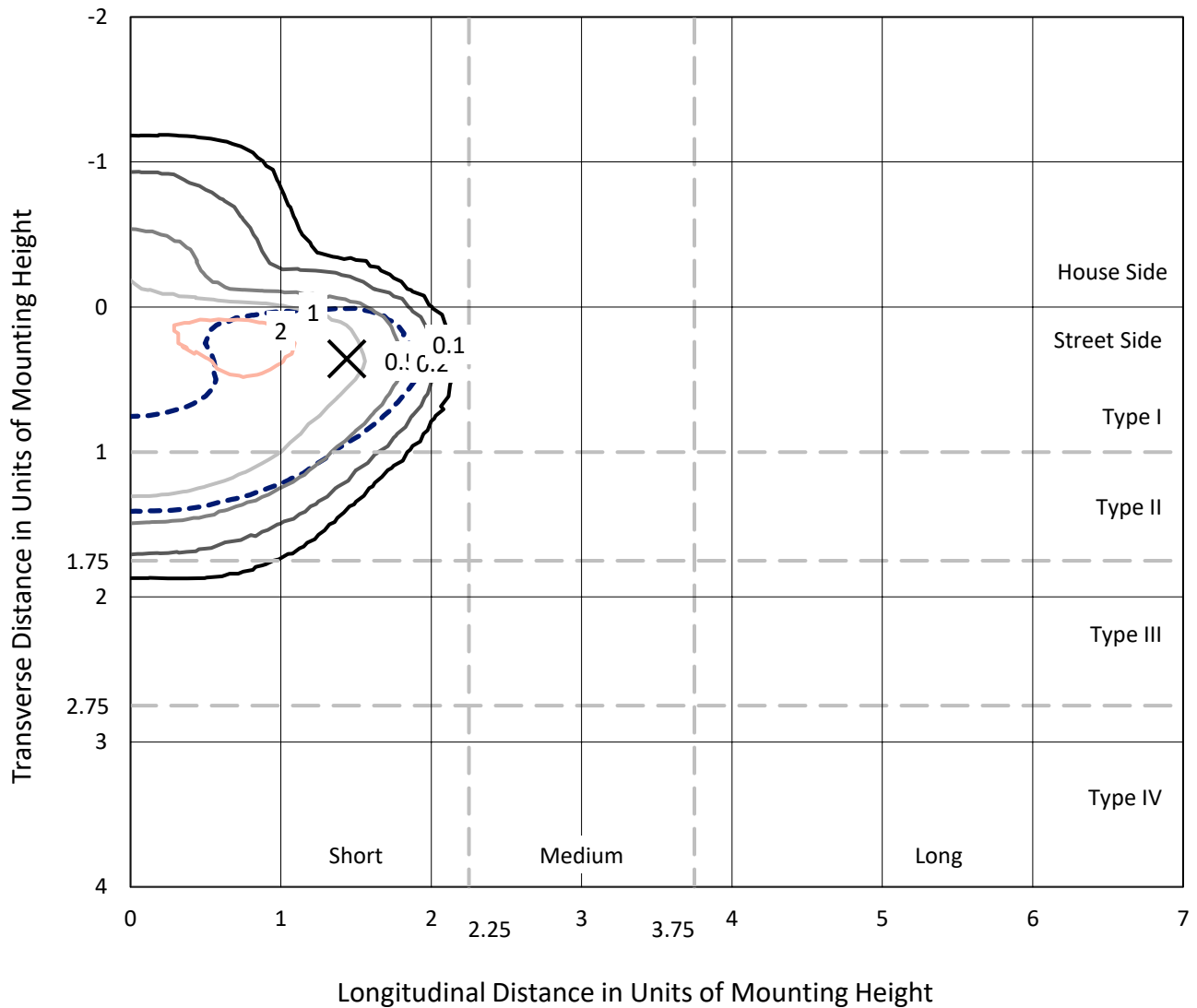
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527043
 CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

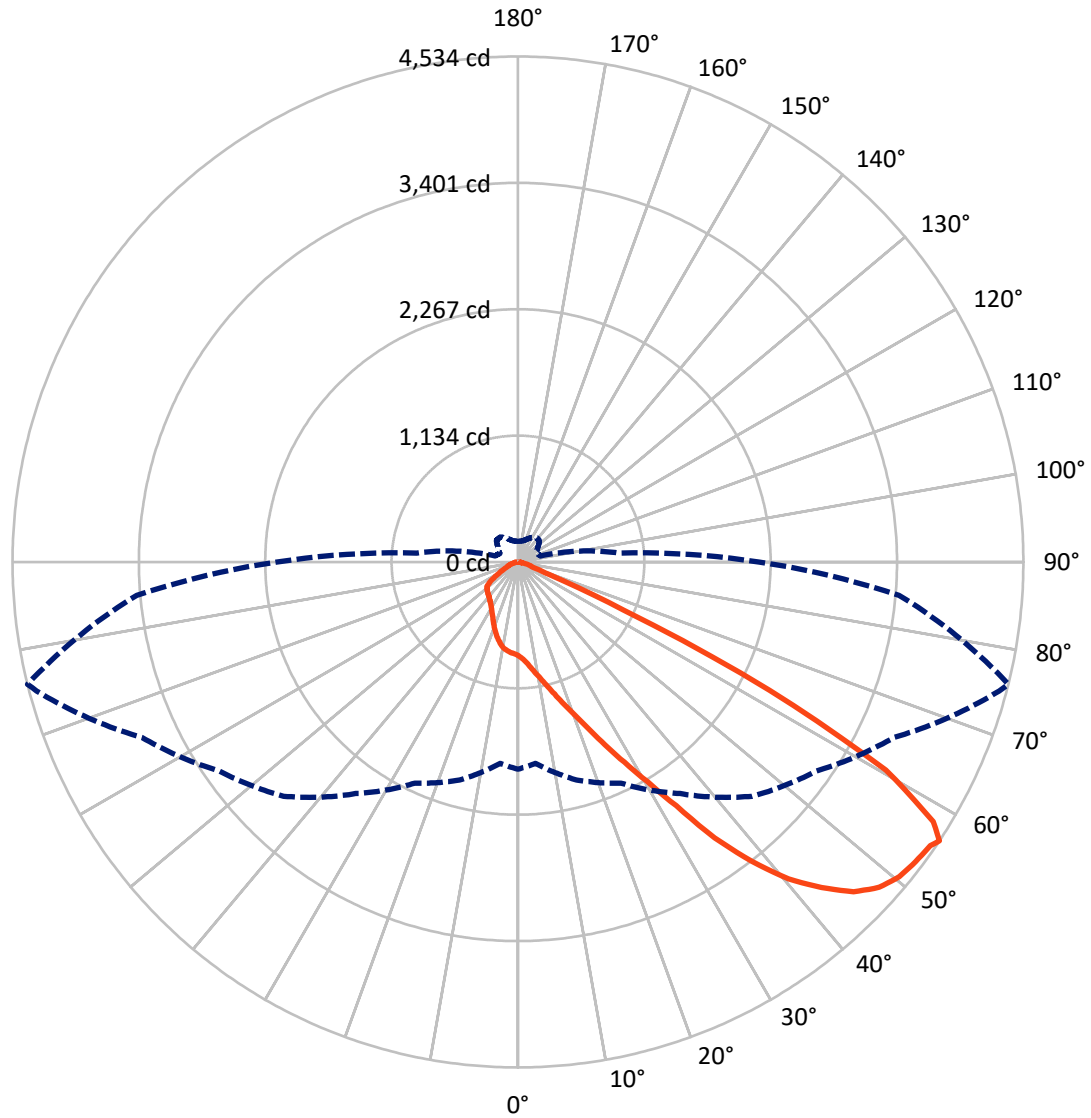
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

REPORT NUMBER: P527043
CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527043
 CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	794.0	0.0	794.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	4260.0	0.0	4260.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	5054.0	0.0	5054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	1.7
10°-20°	272.3	5.4
20°-30°	493.7	9.8
30°-40°	851.3	16.8
40°-50°	1383.0	27.4
50°-60°	1457.8	28.8
60°-70°	445.4	8.8
70°-80°	57.1	1.1
80°-90°	8.7	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°	5054.0	100.0
0°-180°	5054.0	100.0

Coefficient of Utilization

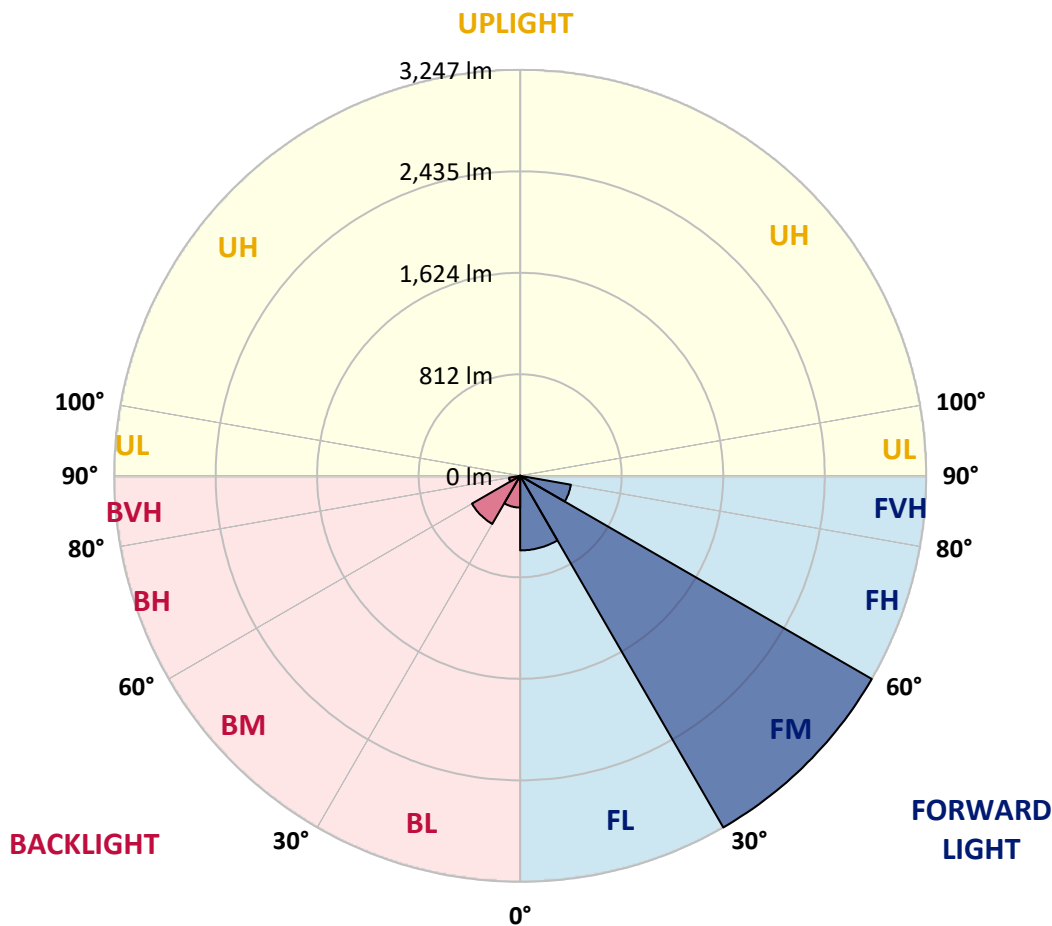


REPORT NUMBER: P527043
 CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	596.7	11.8			
FM (30°-60°)	3247.2	64.2			
FH (60°-80°)	411.9	8.2			G0/660
FVH (80°-90°)	4.2	0.1			G0/10
BL (0°-30°)	254.0	5.0	B1/500		
BM (30°-60°)	445.0	8.8	B1/1000		
BH (60°-80°)	90.6	1.8	B0/110		G0/110
BVH (80°-90°)	4.4	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-G0
 Type II Short





REPORT NUMBER: P527043

CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2
2.5°	968.9	946.5	947.4	945.6	942.8	932.5	901.8	897.1	876.6	871.1	852.4
5°	1085.3	1065.8	1076.9	1060.2	1044.3	1035.0	984.7	961.4	928.8	916.7	890.6
7.5°	1158.0	1148.7	1145.0	1145.9	1131.0	1107.7	1085.3	1034.1	990.3	981.0	926.0
10°	1193.4	1187.8	1193.4	1190.6	1197.1	1199.9	1160.8	1130.0	1065.8	1049.9	964.2
12.5°	1201.8	1213.0	1217.6	1229.7	1245.6	1272.6	1269.8	1227.9	1142.2	1131.9	1022.9
15°	1222.3	1231.6	1226.9	1246.5	1276.3	1322.0	1346.2	1339.7	1247.4	1228.8	1090.9
17.5°	1240.9	1224.1	1240.0	1279.1	1308.9	1378.8	1437.5	1464.5	1362.0	1340.6	1153.3
20°	1266.1	1261.4	1258.6	1278.2	1331.3	1424.4	1540.9	1590.3	1490.6	1468.2	1242.8
22.5°	1342.5	1343.4	1341.5	1312.6	1350.8	1456.1	1631.3	1753.3	1644.3	1625.7	1344.3
25°	1443.1	1431.0	1421.6	1398.4	1393.7	1485.0	1722.6	1952.7	1828.8	1815.7	1454.2
27.5°	1549.3	1549.3	1521.3	1499.9	1470.1	1556.7	1806.4	2146.4	2051.4	2033.7	1550.2
30°	1664.8	1671.3	1667.6	1621.9	1603.3	1635.0	1892.1	2394.2	2306.7	2284.3	1708.6
32.5°	1835.3	1821.3	1837.1	1798.9	1744.0	1771.9	2027.2	2616.0	2638.3	2606.7	1916.3
35°	2060.7	2052.3	2042.1	1979.7	1914.5	1936.8	2218.2	2888.9	3054.8	3038.9	2125.9
37.5°	2262.9	2258.2	2249.8	2207.0	2131.5	2158.5	2435.2	3173.1	3460.9	3408.8	2422.2
40°	2475.3	2500.4	2473.4	2435.2	2366.3	2425.9	2690.5	3341.7	3802.8	3739.5	2648.6
42.5°	2763.2	2743.6	2755.7	2685.8	2648.6	2713.8	2946.7	3510.3	4068.4	3992.9	2888.9
45°	3069.7	3070.6	3038.0	3015.6	2918.7	2989.5	3104.1	3603.5	4279.8	4221.1	3070.6
47.5°	3266.2	3265.3	3300.7	3336.1	3236.4	3166.6	3211.3	3692.0	4388.8	4361.8	3136.7
50°	3235.5	3244.8	3290.5	3422.7	3474.9	3380.8	3311.9	3665.9	4438.2	4435.4	3193.6
52.5°	2814.4	2845.1	2921.5	3112.5	3375.2	3491.7	3417.2	3714.3	4462.4	4467.1	3278.3
55°	2142.7	2159.5	2304.8	2536.8	2827.4	3226.2	3375.2	3752.5	4481.1	4489.4	3380.8
56°	1858.6	1813.8	2023.5	2188.4	2535.8	2971.8	3269.0	3722.7	4469.9	4534.2	3432.1
57.5°	1403.0	1373.2	1542.7	1748.6	2083.1	2543.3	2939.2	3582.0	4394.4	4393.5	3358.5
60°	853.4	823.5	954.0	1075.1	1262.3	1566.0	1986.2	2852.6	3715.3	3793.5	2719.4
62.5°	507.7	526.4	654.9	728.5	789.1	820.8	1027.6	1695.5	2479.0	2534.9	1687.1
65°	338.2	344.7	441.6	562.7	589.7	469.5	418.3	686.6	1075.1	1040.6	695.9
67.5°	208.7	223.6	296.3	423.0	468.6	342.8	198.4	256.2	296.3	296.3	201.2
70°	126.7	134.2	197.5	287.9	321.4	220.8	144.4	144.4	142.5	139.7	120.2
72.5°	60.6	65.2	100.6	148.1	150.9	116.5	111.8	122.0	119.2	118.3	99.7
75°	26.1	27.9	35.4	46.6	53.1	49.4	68.0	87.6	90.4	87.6	71.7
77.5°	8.4	9.3	13.0	16.8	17.7	21.4	28.9	36.3	41.9	39.1	35.4
80°	0.9	1.9	3.7	8.4	13.0	16.8	21.4	24.2	27.0	27.0	25.2
82.5°	0.9	0.9	3.7	7.5	12.1	15.8	20.5	23.3	27.0	27.9	26.1
85°	0.0	0.9	2.8	6.5	10.2	10.2	9.3	9.3	6.5	6.5	6.5
87.5°	0.0	0.0	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527043

CATALOG NUMBER: GALN-SA2A-735-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2	841.2
2.5°	848.7	846.8	821.7	805.8	797.5	780.7	770.4	763.0	757.4	750.9	751.8
5°	859.9	853.4	811.4	782.6	748.1	729.5	713.6	700.6	692.2	690.3	686.6
7.5°	891.6	857.1	793.7	741.6	697.8	679.1	665.2	656.8	660.5	652.1	658.6
10°	915.8	864.5	772.3	696.8	653.1	639.1	631.6	638.2	647.5	643.7	639.1
12.5°	945.6	872.0	737.8	654.0	613.0	602.8	615.8	627.9	646.5	654.0	644.7
15°	979.1	880.4	694.1	604.6	578.5	586.9	609.3	630.7	649.3	658.6	664.2
17.5°	1020.1	877.6	651.2	565.5	545.9	570.1	597.2	616.7	644.7	658.6	654.9
20°	1058.3	868.3	603.7	526.4	527.3	549.7	572.0	603.7	618.6	637.2	630.7
22.5°	1094.6	851.5	554.3	499.3	499.3	533.8	545.0	565.5	578.5	587.8	586.9
25°	1145.9	819.8	513.3	473.3	484.4	506.8	516.1	522.6	517.0	524.5	525.4
27.5°	1182.2	787.2	479.8	450.0	470.5	487.2	484.4	480.7	467.7	457.4	463.9
30°	1221.3	749.0	450.9	434.1	445.3	460.2	449.0	437.9	417.4	400.6	401.5
32.5°	1277.2	731.3	425.7	415.5	430.4	432.3	420.2	403.4	382.9	367.1	366.1
35°	1381.6	720.1	404.3	403.4	406.2	407.1	395.0	374.5	366.1	353.1	357.7
37.5°	1485.9	714.5	389.4	385.7	384.8	385.7	371.7	352.1	368.0	367.1	368.9
40°	1619.1	739.7	368.0	363.3	364.3	364.3	346.6	341.0	368.9	371.7	372.6
42.5°	1754.2	771.4	354.0	339.1	342.8	342.8	333.5	327.0	346.6	327.9	325.1
45°	1871.6	818.0	339.1	314.9	324.2	328.9	326.1	314.9	302.8	271.1	271.1
47.5°	1909.8	858.9	321.4	291.6	299.0	319.5	311.2	287.9	266.4	240.4	238.5
50°	1976.9	903.7	307.4	264.6	280.4	305.6	297.2	273.9	249.7	231.0	232.0
52.5°	2045.8	954.9	281.3	232.9	252.5	294.4	294.4	268.3	231.0	218.0	216.1
55°	2149.2	953.0	234.8	191.0	225.5	277.6	282.3	240.4	206.8	196.6	196.6
56°	2164.1	910.2	211.5	178.9	213.3	273.0	273.9	232.9	197.5	186.3	186.3
57.5°	2052.3	821.7	185.4	164.0	198.4	264.6	265.5	226.4	190.0	174.2	172.3
60°	1579.1	556.2	154.6	146.3	179.8	238.5	243.2	205.9	166.8	154.6	153.7
62.5°	891.6	308.4	136.0	132.3	154.6	203.1	217.1	179.8	141.6	135.1	136.9
65°	407.1	169.6	114.6	107.1	124.8	156.5	175.1	148.1	116.5	109.0	109.0
67.5°	149.1	115.5	97.8	84.8	87.6	101.5	113.7	96.0	77.3	66.1	68.9
70°	106.2	96.9	85.7	73.6	68.0	66.1	65.2	54.0	38.2	29.8	31.7
72.5°	85.7	80.1	71.7	62.4	53.1	44.7	38.2	27.9	17.7	12.1	11.2
75°	61.5	58.7	52.2	44.7	37.3	31.7	26.1	17.7	9.3	4.7	4.7
77.5°	31.7	31.7	30.7	27.9	23.3	18.6	14.9	10.2	5.6	1.9	1.9
80°	24.2	26.1	27.0	24.2	21.4	16.8	12.1	7.5	3.7	0.9	0.9
82.5°	23.3	27.0	28.9	25.2	21.4	15.8	12.1	7.5	3.7	0.9	0.9
85°	5.6	5.6	8.4	9.3	12.1	13.0	10.2	6.5	2.8	0.9	0.9
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	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)