

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: P531959

Luminaire Tested: **GALN-SA7B-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531959
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24418 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

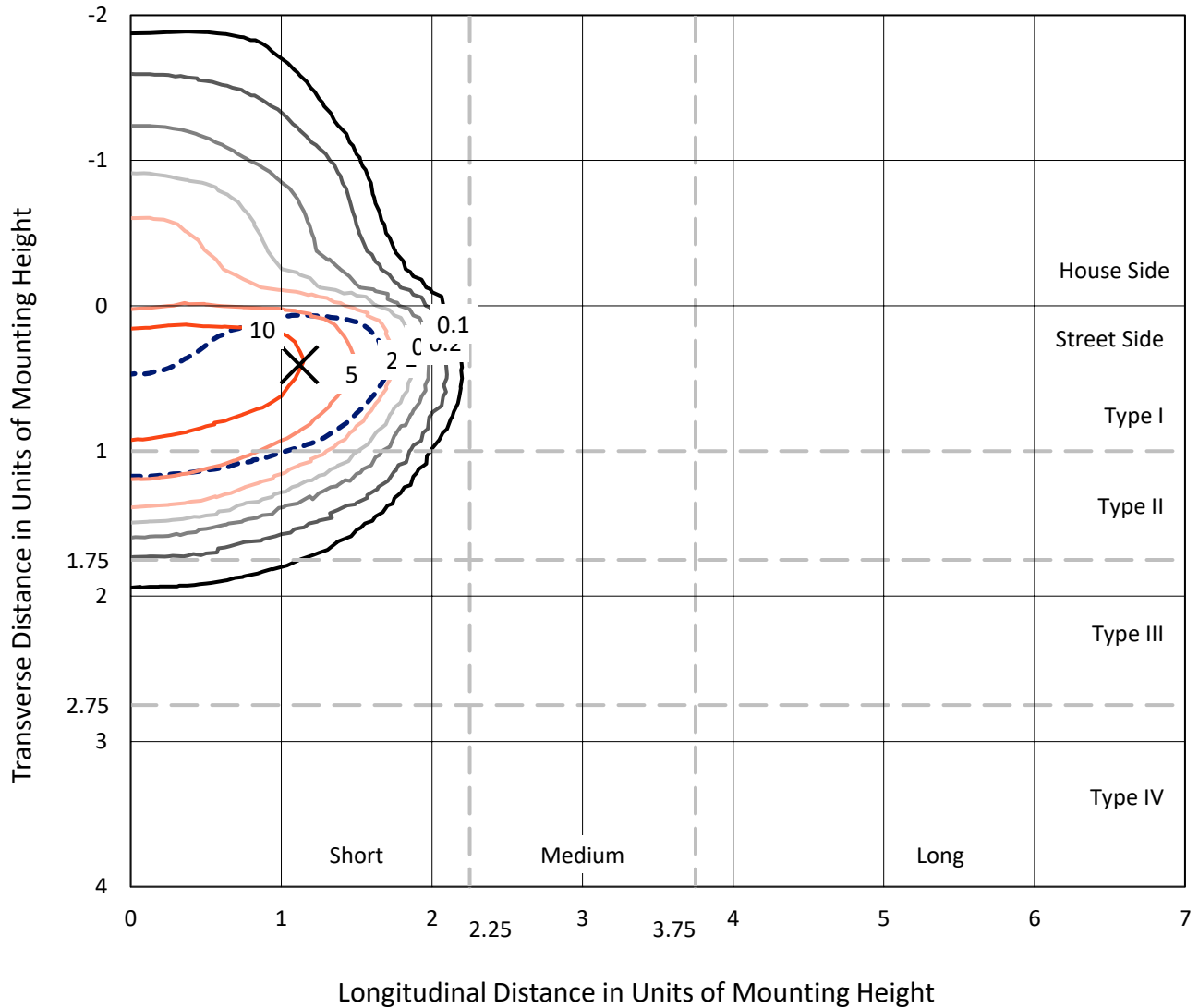
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

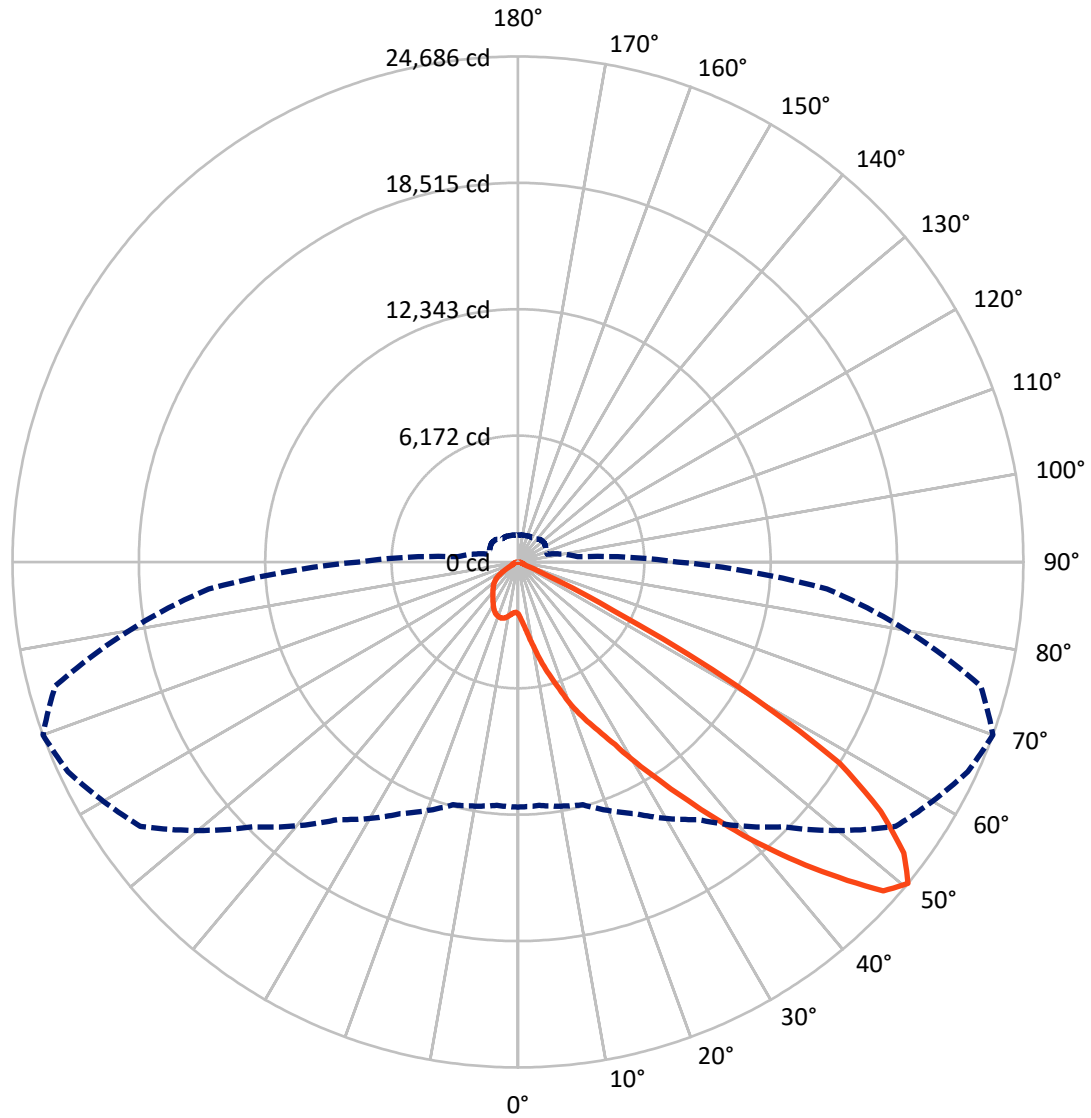
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3410.1	0.0	3410.1
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	21007.9	0.0	21007.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	24418.0	0.0	24418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.9	1.3
10°-20°	1422.7	5.8
20°-30°	2984.5	12.2
30°-40°	5144.3	21.1
40°-50°	7518.4	30.8
50°-60°	5855.6	24.0
60°-70°	992.1	4.1
70°-80°	136.3	0.6
80°-90°	35.3	0.1
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°	24418.0	100.0
0°-180°	24418.0	100.0

Coefficient of Utilization



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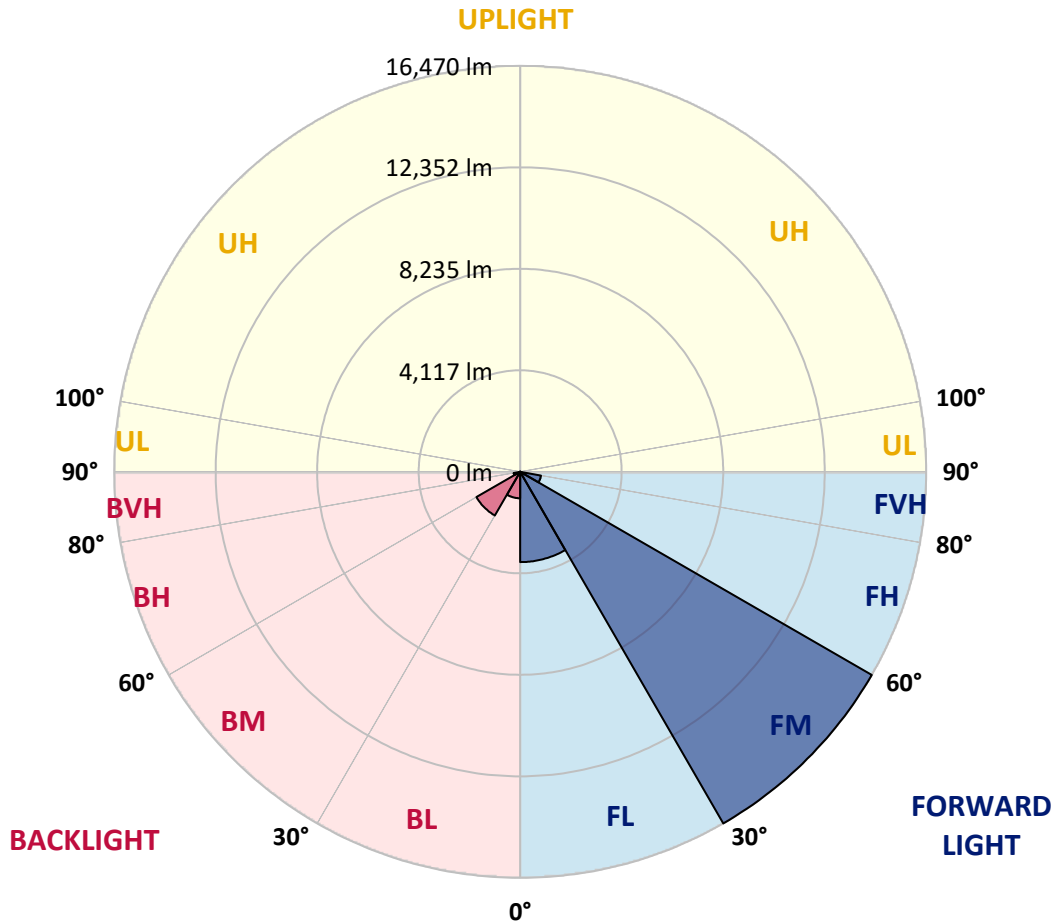
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3663.0	15.0			
FM (30°-60°)	16469.5	67.4			
FH (60°-80°)	859.0	3.5			G1/1800
FVH (80°-90°)	16.3	0.1			G1/100
BL (0°-30°)	1073.1	4.4	B3/2500		
BM (30°-60°)	2048.7	8.4	B2/2500		
BH (60°-80°)	269.4	1.1	B1/500		G1/500
BVH (80°-90°)	19.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2
2.5°	3312.1	3288.0	3235.8	3139.4	3099.3	3003.0	2946.7	2838.4	2770.1	2693.8	2609.5
5°	4665.0	4540.6	4464.3	4355.9	4038.7	3842.0	3516.8	3239.8	3111.3	2970.8	2778.1
7.5°	6062.1	5981.8	5877.4	5644.6	5427.8	5018.3	4460.3	3850.0	3589.1	3348.2	2966.8
10°	7218.3	6993.5	6981.5	6808.8	6572.0	6082.2	5411.7	4653.0	4187.3	3834.0	3235.8
12.5°	8025.3	7820.5	7912.9	7892.8	7672.0	7222.3	6447.5	5443.9	4958.1	4408.1	3512.8
15°	8759.9	8675.6	8647.5	8623.4	8535.1	8201.9	7507.4	6407.4	5704.8	5042.4	3826.0
17.5°	9478.6	9261.8	9366.2	9386.2	9378.2	9077.1	8426.7	7322.7	6495.7	5712.8	4155.2
20°	10116.9	10137.0	9996.5	9968.4	9944.3	9932.2	9297.9	8230.0	7467.2	6415.4	4584.7
22.5°	10935.9	10795.4	10919.8	10839.5	10683.0	10586.6	10100.8	9032.9	8310.3	7262.5	5022.3
25°	11903.4	12015.8	11722.8	11690.6	11518.0	11184.8	10747.2	9932.2	9121.3	8049.4	5496.0
27.5°	13095.8	12899.0	12822.8	12646.1	12333.0	12192.5	11678.6	10859.6	10100.8	8876.4	5953.7
30°	14119.5	14067.3	13685.9	13477.2	13204.2	13200.1	12481.5	12116.2	11377.5	10173.1	6584.0
32.5°	14954.5	14725.7	14585.2	14440.7	14219.9	14280.1	13673.9	13481.2	12738.5	11377.5	7326.7
35°	15512.6	15348.0	15263.7	15042.9	14978.6	15247.6	14994.7	14914.4	14304.2	13071.7	8197.9
37.5°	15689.2	15741.4	15725.3	15448.3	15584.8	16311.5	16636.7	16427.9	16106.7	14858.2	9141.3
40°	15845.8	15881.9	15801.6	16126.8	16516.2	17343.3	18519.5	18174.3	18053.8	16668.8	10454.1
42.5°	15934.1	15906.0	15906.0	16468.1	17058.2	18720.3	20338.2	20109.3	20017.0	18595.8	11971.7
45°	15552.7	15279.7	15572.8	16335.6	17523.9	19398.7	21791.5	22108.6	21976.1	20888.2	13746.1
47.5°	14127.5	14296.1	14460.7	15480.5	16957.8	19190.0	22682.7	23762.7	24007.6	22815.2	14910.4
50°	11971.7	11935.5	12276.8	13561.5	15356.0	18290.7	22510.1	24240.4	24686.0	23393.3	15155.3
52.5°	8707.8	8972.7	9342.1	10618.7	12746.5	15962.2	20282.0	23007.9	23602.1	22682.7	14994.7
55°	5070.5	4777.4	5608.5	6688.4	8695.7	12039.9	17146.5	20394.4	21494.4	21390.0	14183.7
57.5°	2031.4	1967.2	2252.2	3035.1	4536.5	7463.2	12469.5	16757.1	18519.5	19591.4	12465.5
60°	891.3	871.2	1023.7	1236.5	1854.8	3440.5	6820.9	10422.0	12260.7	13689.9	8579.3
62.5°	642.3	634.3	710.6	786.9	979.6	1497.5	2866.5	4199.3	5235.1	6323.1	3842.0
65°	517.9	538.0	590.2	630.3	722.6	831.0	1011.7	1168.3	1433.2	1485.4	847.1
67.5°	421.5	437.6	485.8	529.9	546.0	449.6	465.7	409.5	409.5	365.3	293.1
70°	309.1	313.1	369.3	421.5	337.2	180.7	317.2	317.2	285.0	273.0	248.9
72.5°	228.8	232.8	277.0	261.0	132.5	112.4	232.8	256.9	232.8	220.8	200.7
75°	168.6	172.6	144.5	60.2	56.2	72.3	136.5	176.6	168.6	164.6	152.6
77.5°	32.1	24.1	20.1	28.1	40.1	60.2	88.3	108.4	112.4	120.4	112.4
80°	4.0	4.0	12.0	24.1	44.2	64.2	92.3	104.4	108.4	112.4	104.4
82.5°	0.0	4.0	12.0	24.1	44.2	60.2	80.3	92.3	100.4	104.4	100.4
85°	0.0	4.0	8.0	20.1	36.1	44.2	40.1	28.1	24.1	28.1	20.1
87.5°	0.0	0.0	4.0	4.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
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°	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2	2529.2
2.5°	2561.3	2545.3	2489.1	2428.9	2376.7	2400.8	2376.7	2356.6	2364.6	2356.6	2348.6
5°	2701.9	2629.6	2509.2	2457.0	2412.8	2408.8	2396.7	2392.7	2396.7	2396.7	2360.6
7.5°	2834.3	2717.9	2589.4	2533.2	2481.0	2485.1	2457.0	2457.0	2452.9	2432.9	2424.8
10°	3035.1	2878.5	2713.9	2613.5	2549.3	2537.3	2509.2	2481.0	2481.0	2481.0	2440.9
12.5°	3255.9	3059.2	2834.3	2717.9	2641.6	2581.4	2537.3	2529.2	2485.1	2477.0	2457.0
15°	3448.6	3199.7	2914.6	2754.0	2657.7	2577.4	2509.2	2465.0	2444.9	2432.9	2416.8
17.5°	3637.3	3320.1	2958.8	2754.0	2649.7	2557.3	2485.1	2444.9	2396.7	2404.8	2372.7
20°	3890.2	3448.6	2970.8	2701.9	2573.4	2485.1	2388.7	2368.6	2340.5	2316.4	2324.5
22.5°	4135.1	3540.9	2934.7	2637.6	2452.9	2348.6	2300.4	2276.3	2264.3	2244.2	2216.1
25°	4355.9	3641.3	2878.5	2521.2	2324.5	2248.2	2204.0	2200.0	2171.9	2171.9	2119.7
27.5°	4580.7	3677.4	2782.1	2384.7	2212.1	2167.9	2147.8	2139.8	2127.8	2099.7	2063.5
30°	4837.6	3689.5	2641.6	2244.2	2111.7	2063.5	2091.6	2111.7	2059.5	2007.3	2023.4
32.5°	5050.4	3661.4	2473.0	2111.7	2039.4	2015.3	2071.6	2091.6	2031.4	1975.2	1947.1
35°	5307.4	3593.1	2308.4	2007.3	1967.2	2015.3	2063.5	2063.5	1943.1	1874.8	1858.8
37.5°	5696.8	3516.8	2155.9	1919.0	1890.9	1991.3	2055.5	2011.3	1822.6	1738.3	1718.3
40°	6114.3	3468.7	2007.3	1830.7	1850.7	1951.1	1987.2	1850.7	1658.0	1605.9	1589.8
42.5°	6720.5	3372.3	1874.8	1754.4	1814.6	1894.9	1894.9	1650.0	1577.8	1549.7	1545.6
45°	7475.3	3304.0	1758.4	1690.2	1762.4	1782.5	1718.3	1545.6	1493.4	1485.4	1489.4
47.5°	7844.6	3171.6	1638.0	1613.9	1666.1	1670.1	1501.5	1461.3	1417.2	1405.1	1397.1
50°	7788.4	2934.7	1481.4	1513.5	1585.8	1545.6	1369.0	1377.0	1336.9	1332.9	1312.8
52.5°	7395.0	2561.3	1324.8	1401.1	1481.4	1365.0	1260.6	1252.6	1252.6	1200.4	1180.3
55°	6555.9	2063.5	1136.1	1232.5	1328.8	1148.2	1120.1	1112.1	1092.0	1043.8	1031.8
57.5°	5190.9	1513.5	855.1	959.5	1128.1	975.6	971.5	935.4	883.2	847.1	847.1
60°	3087.3	871.2	538.0	586.1	746.7	790.9	879.2	863.1	774.8	718.6	702.6
62.5°	1409.1	449.6	341.2	349.3	401.5	513.9	690.5	798.9	674.5	578.1	570.1
65°	473.7	333.2	281.0	269.0	277.0	309.1	413.5	566.1	538.0	445.6	429.6
67.5°	289.1	297.1	265.0	244.9	244.9	240.9	236.9	256.9	317.2	309.1	313.1
70°	248.9	273.0	244.9	220.8	212.8	200.7	168.6	140.5	120.4	140.5	148.5
72.5°	200.7	216.8	208.8	188.7	168.6	152.6	120.4	92.3	68.2	60.2	60.2
75°	148.5	160.6	168.6	144.5	128.5	108.4	88.3	60.2	36.1	24.1	24.1
77.5°	108.4	120.4	124.5	112.4	96.4	76.3	56.2	40.1	20.1	8.0	8.0
80°	92.3	108.4	120.4	112.4	100.4	72.3	52.2	28.1	16.1	4.0	4.0
82.5°	88.3	108.4	120.4	108.4	96.4	68.2	52.2	32.1	12.0	4.0	4.0
85°	20.1	28.1	36.1	44.2	52.2	52.2	40.1	24.1	12.0	4.0	4.0
87.5°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	4.0	4.0	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)