

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: P530958

Luminaire Tested: **GALN-SA6B-727-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530958
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-727-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25463 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

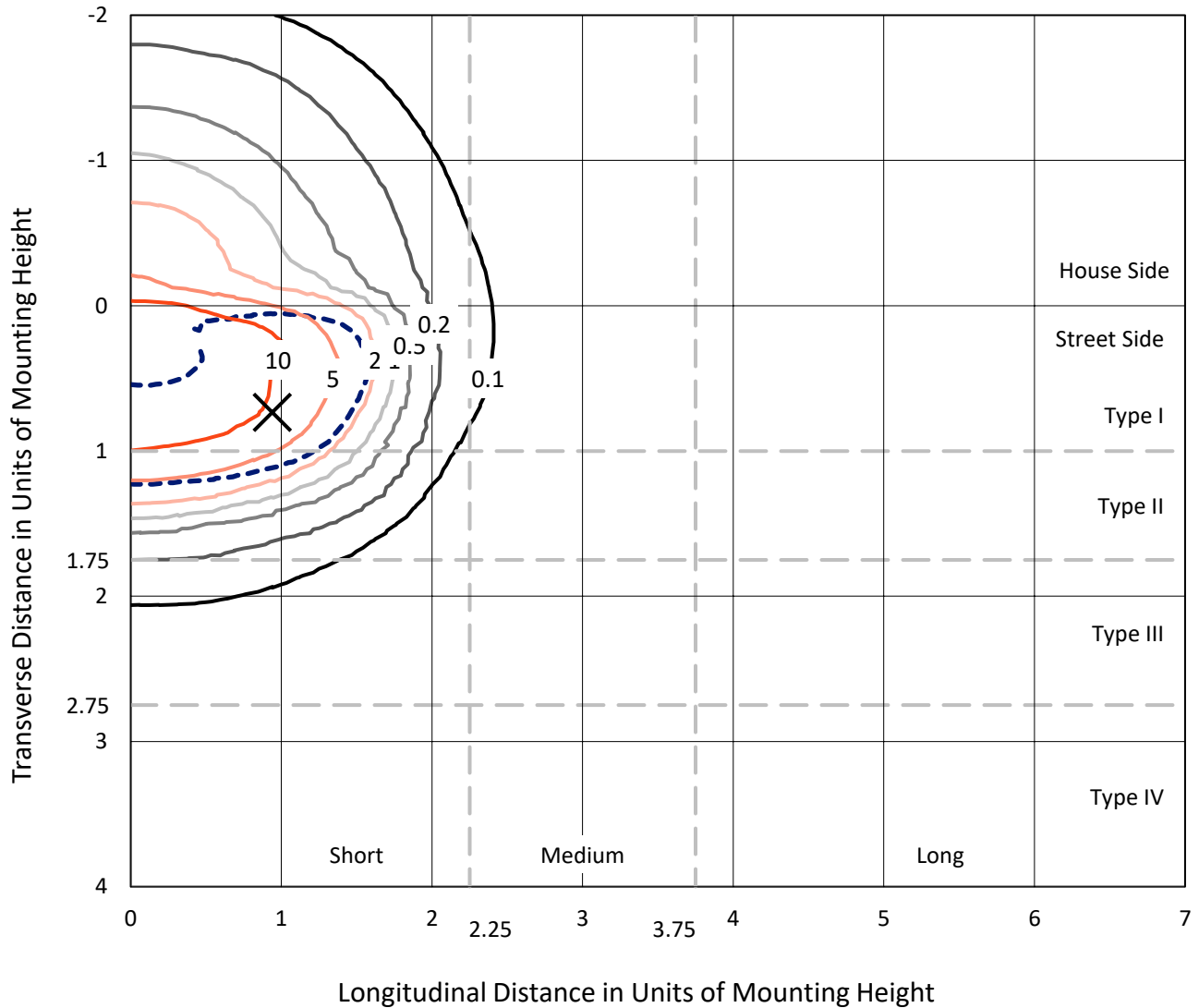
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

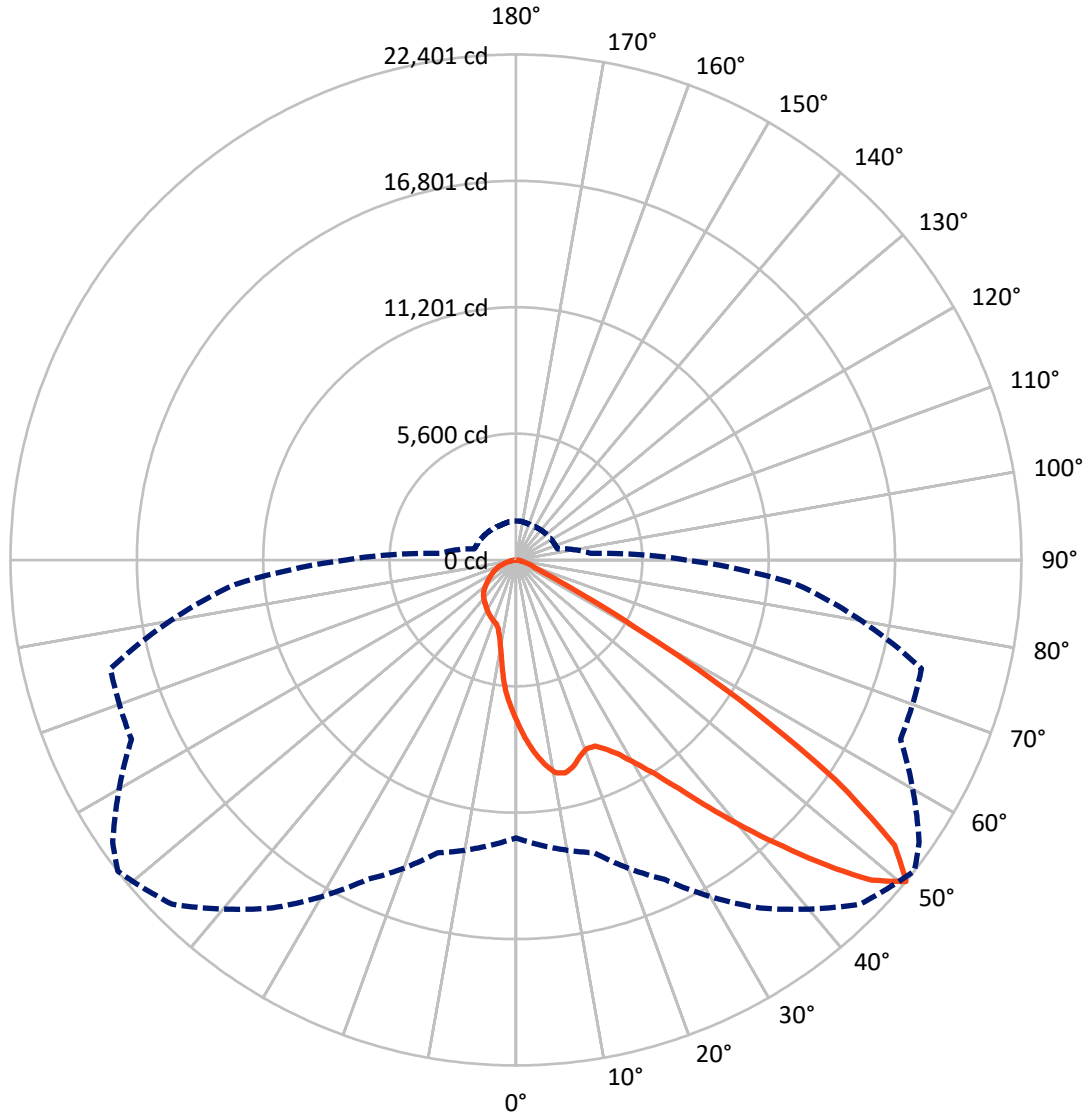
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4786.4	0.0	4786.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20676.5	0.0	20676.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	25463.0	0.0	25463.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	661.6	2.6
10°-20°	1773.1	7.0
20°-30°	2986.8	11.7
30°-40°	5012.1	19.7
40°-50°	7667.2	30.1
50°-60°	5590.0	22.0
60°-70°	1244.1	4.9
70°-80°	448.7	1.8
80°-90°	79.4	0.3
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°	25463.0	100.0
0°-180°	25463.0	100.0

Coefficient of Utilization



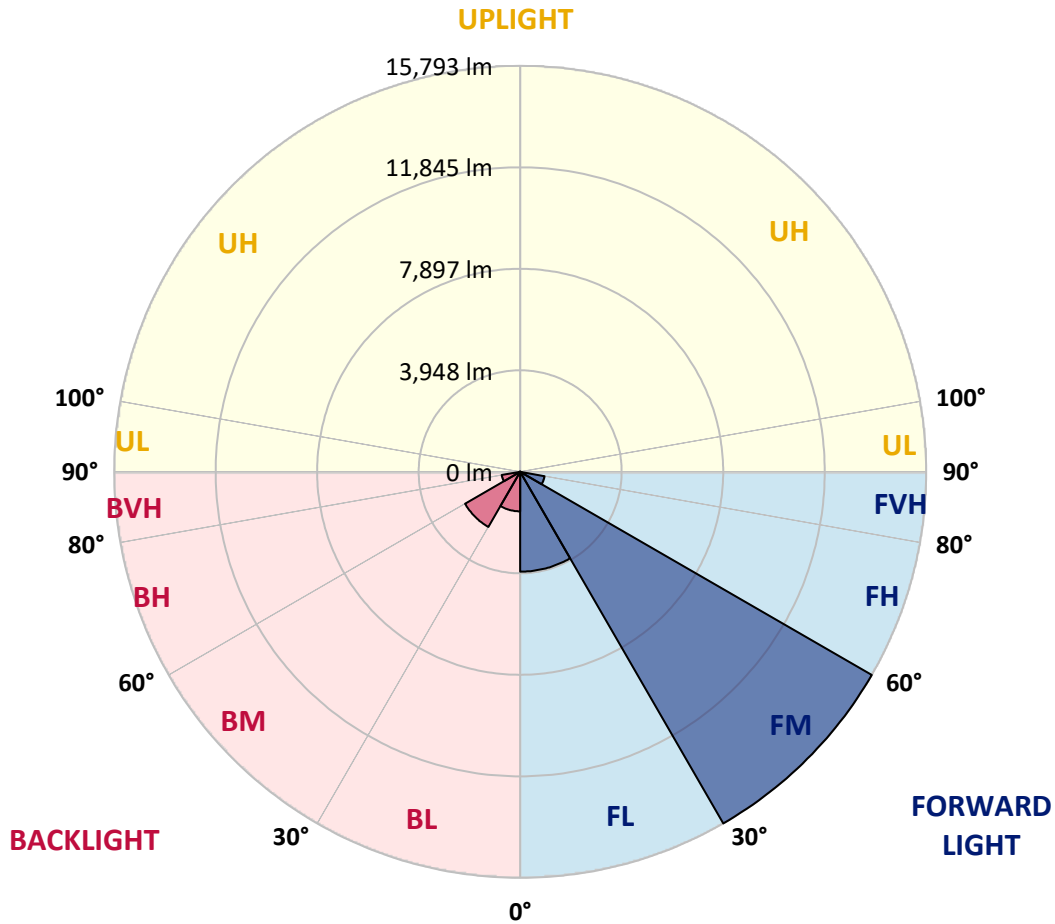
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3884.0	15.3			
FM (30°-60°)	15793.4	62.0			
FH (60°-80°)	963.5	3.8			G1/1800
FVH (80°-90°)	35.6	0.1			G1/100
BL (0°-30°)	1537.5	6.0	B3/2500		
BM (30°-60°)	2475.9	9.7	B2/2500		
BH (60°-80°)	729.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	43.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6
2.5°	8451.1	8288.5	8306.9	8190.3	8064.4	8027.6	7898.7	7776.0	7683.9	7487.5	7306.5
5°	9236.7	9187.6	9113.9	9021.9	8926.7	8693.5	8561.6	8408.1	8070.6	7766.8	7466.1
7.5°	9350.2	9341.0	9380.9	9380.9	9414.7	9325.7	9138.5	9031.1	8672.0	8178.0	7619.5
10°	8552.4	8580.0	8773.3	9024.9	9374.8	9617.2	9586.5	9558.9	9166.1	8491.0	7800.5
12.5°	7917.1	7855.8	7969.3	8184.1	8708.9	9295.0	9690.8	9693.9	9592.6	8991.2	7932.5
15°	7558.1	7601.1	7631.8	7733.0	8128.9	8807.1	9503.6	9709.2	10154.2	9344.1	8141.2
17.5°	7788.3	7644.0	7637.9	7662.4	7865.0	8374.4	9156.9	9509.8	10461.1	9798.2	8398.9
20°	8089.0	8085.9	8000.0	7969.3	7966.2	8420.4	8929.8	9408.5	10623.7	10387.4	8659.8
22.5°	8616.8	8616.8	8475.6	8408.1	8263.9	8635.2	8960.5	9285.8	10893.7	10792.5	8785.6
25°	9500.6	9356.3	9113.9	8948.2	8865.4	8997.3	9285.8	9577.3	11130.0	11222.1	9046.4
27.5°	10316.8	10089.8	9970.1	9684.7	9574.2	9497.5	9761.4	10056.0	11406.2	11891.1	9187.6
30°	11243.6	11203.7	10988.9	10620.6	10347.5	10206.4	10448.8	10740.3	11912.5	12575.4	9512.8
32.5°	12900.6	12538.5	12247.0	11795.9	11351.0	11050.2	11289.6	11482.9	12753.4	13290.4	9868.8
35°	14689.7	14573.1	14069.8	13256.6	12575.4	12305.3	12446.5	12590.7	13732.3	14382.8	10467.2
37.5°	16448.0	16288.5	15874.2	15189.9	14361.3	13812.0	13913.3	14082.1	14830.8	15855.8	11197.5
40°	17712.3	17515.9	17307.2	17206.0	16383.6	15631.8	15573.5	15616.4	16316.1	17236.7	12007.7
42.5°	17804.4	18046.8	18111.2	18519.4	18326.0	17709.2	17350.2	17359.4	17733.8	18602.2	12827.0
45°	17611.0	17387.0	17862.7	18976.6	19614.9	19903.3	19298.8	19222.1	18611.4	19393.9	13235.1
47.5°	15582.7	15644.0	16448.0	18209.4	20053.7	21342.5	21201.4	20946.7	19080.9	19366.3	13170.7
50°	12317.6	12688.9	13434.6	15628.7	18826.2	21569.6	22401.2	21812.0	18801.7	18605.3	12514.0
52.5°	8202.5	8356.0	8846.9	11679.3	15137.7	19280.4	21020.3	21155.3	18543.9	17608.0	11682.4
55°	3651.7	3639.4	4329.9	6100.5	9497.5	14671.3	17175.3	17997.7	17552.7	16592.2	10872.3
57.5°	1546.6	1598.8	1881.1	2636.0	4670.5	8853.1	11636.4	12357.5	13499.0	13624.9	8340.6
60°	1046.4	1052.6	1129.3	1319.5	1954.7	4158.0	6103.6	6968.9	7785.2	7730.0	4425.0
62.5°	822.4	843.9	902.2	978.9	1160.0	1887.2	2731.1	3212.9	3265.1	2746.5	1678.6
65°	702.7	705.8	764.1	828.5	908.3	1098.6	1316.5	1341.0	1356.3	1307.2	1233.6
67.5°	580.0	586.1	632.1	705.8	779.4	840.8	902.2	932.9	1003.5	1141.5	1123.1
70°	460.3	469.5	509.4	570.8	638.3	675.1	751.8	779.4	843.9	951.3	994.2
72.5°	349.8	352.9	386.7	429.6	491.0	527.8	592.3	622.9	665.9	758.0	797.9
75°	251.6	260.8	285.4	306.9	316.1	340.6	402.0	435.7	497.1	537.0	540.1
77.5°	132.0	138.1	144.2	144.2	174.9	220.9	260.8	279.2	322.2	352.9	337.6
80°	52.2	55.2	70.6	95.1	122.7	159.6	187.2	196.4	233.2	251.6	260.8
82.5°	30.7	33.8	46.0	67.5	89.0	113.5	135.0	144.2	168.8	190.3	196.4
85°	15.3	18.4	27.6	43.0	58.3	70.6	67.5	64.4	64.4	61.4	64.4
87.5°	6.1	6.1	9.2	9.2	9.2	12.3	15.3	15.3	15.3	18.4	18.4
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°	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6	7177.6
2.5°	7186.8	7064.1	6950.5	6741.8	6514.8	6450.3	6186.4	6091.3	6023.8	5944.0	5919.4
5°	7223.6	7061.0	6695.8	6275.4	5940.9	5511.3	5229.0	4925.2	4704.3	4649.0	4633.7
7.5°	7300.3	7021.1	6392.0	5756.8	5072.5	4489.5	4044.5	3805.1	3593.4	3581.1	3559.6
10°	7386.3	6901.4	6060.6	5063.3	4188.7	3648.6	3381.7	3277.3	3225.2	3212.9	3206.8
12.5°	7456.8	6876.9	5689.3	4388.2	3562.7	3237.4	3157.7	3148.4	3169.9	3176.1	3188.3
15°	7487.5	6778.7	5241.3	3783.7	3173.0	3053.3	3087.1	3123.9	3139.2	3179.1	3148.4
17.5°	7545.8	6652.9	4688.9	3304.9	2955.1	2976.6	3034.9	3077.9	3102.4	3130.0	3090.1
20°	7576.5	6539.3	4170.3	3019.6	2878.4	2918.3	2998.1	3031.8	3062.5	3074.8	3028.8
22.5°	7548.9	6306.1	3713.1	2789.4	2804.8	2856.9	2927.5	2964.3	2945.9	2896.8	2869.2
25°	7475.3	5977.8	3237.4	2642.1	2700.4	2792.5	2847.7	2820.1	2786.3	2758.7	2749.5
27.5°	7472.2	5575.8	2893.7	2507.1	2611.4	2737.2	2718.8	2694.3	2709.6	2688.1	2663.6
30°	7487.5	5186.0	2611.4	2430.4	2547.0	2608.4	2629.8	2605.3	2623.7	2583.8	2596.1
32.5°	7407.7	4805.5	2427.3	2341.4	2470.3	2467.2	2537.8	2556.2	2513.2	2430.4	2442.7
35°	7441.5	4498.7	2270.8	2301.5	2384.3	2384.3	2439.6	2418.1	2304.6	2255.5	2267.7
37.5°	7674.7	4197.9	2194.1	2246.3	2301.5	2326.0	2307.6	2215.6	2188.0	2188.0	2194.1
40°	7895.7	3940.2	2148.1	2234.0	2224.8	2240.1	2105.1	2114.3	2114.3	2117.4	2102.0
42.5°	8092.1	3765.2	2111.2	2160.3	2175.7	2095.9	2013.0	2003.8	2025.3	2022.2	2010.0
45°	8162.6	3621.0	2059.1	2077.5	2089.8	1957.8	1917.9	1899.5	1924.1	1933.3	1945.5
47.5°	7892.6	3501.3	2000.8	1963.9	1939.4	1853.5	1801.3	1767.5	1798.2	1850.4	1862.7
50°	7545.8	3344.8	1908.7	1838.1	1786.0	1749.1	1712.3	1678.6	1700.0	1736.9	1727.7
52.5°	7033.4	3099.3	1792.1	1718.5	1629.5	1638.7	1604.9	1586.5	1598.8	1598.8	1589.6
55°	6303.0	2547.0	1595.7	1543.5	1469.9	1494.4	1500.6	1476.0	1451.5	1473.0	1454.5
57.5°	4302.3	1798.2	1423.9	1423.9	1350.2	1384.0	1380.9	1322.6	1264.3	1270.4	1258.2
60°	2488.7	1433.1	1313.4	1301.1	1224.4	1252.0	1258.2	1218.3	1129.3	1135.4	1123.1
62.5°	1414.7	1224.4	1147.7	1129.3	1113.9	1138.5	1138.5	1086.3	1009.6	1015.7	1003.5
65°	1202.9	1135.4	1024.9	1021.9	1015.7	1021.9	997.3	942.1	874.6	847.0	850.0
67.5°	1092.4	1049.5	942.1	914.5	896.0	893.0	847.0	794.8	764.1	739.5	736.5
70°	957.4	923.7	843.9	807.1	788.6	745.7	699.7	665.9	622.9	610.7	622.9
72.5°	758.0	754.9	724.2	684.3	644.4	610.7	570.8	524.7	484.8	475.6	454.2
75°	524.7	530.9	537.0	530.9	497.1	454.2	408.1	371.3	322.2	294.6	288.5
77.5°	343.7	352.9	362.1	349.8	328.3	288.5	257.8	211.7	174.9	153.4	150.4
80°	251.6	263.9	270.0	260.8	236.3	205.6	171.8	135.0	107.4	89.0	89.0
82.5°	193.3	205.6	211.7	196.4	171.8	147.3	122.7	95.1	73.6	58.3	55.2
85°	67.5	64.4	76.7	79.8	95.1	89.0	73.6	55.2	43.0	30.7	27.6
87.5°	18.4	18.4	21.5	21.5	18.4	15.3	15.3	15.3	12.3	9.2	9.2
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)