

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: P532049

Luminaire Tested: **GALN-SA7B-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532049  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7B-827-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21734 lumens  
Efficiency: N/A  
Efficacy: 76.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

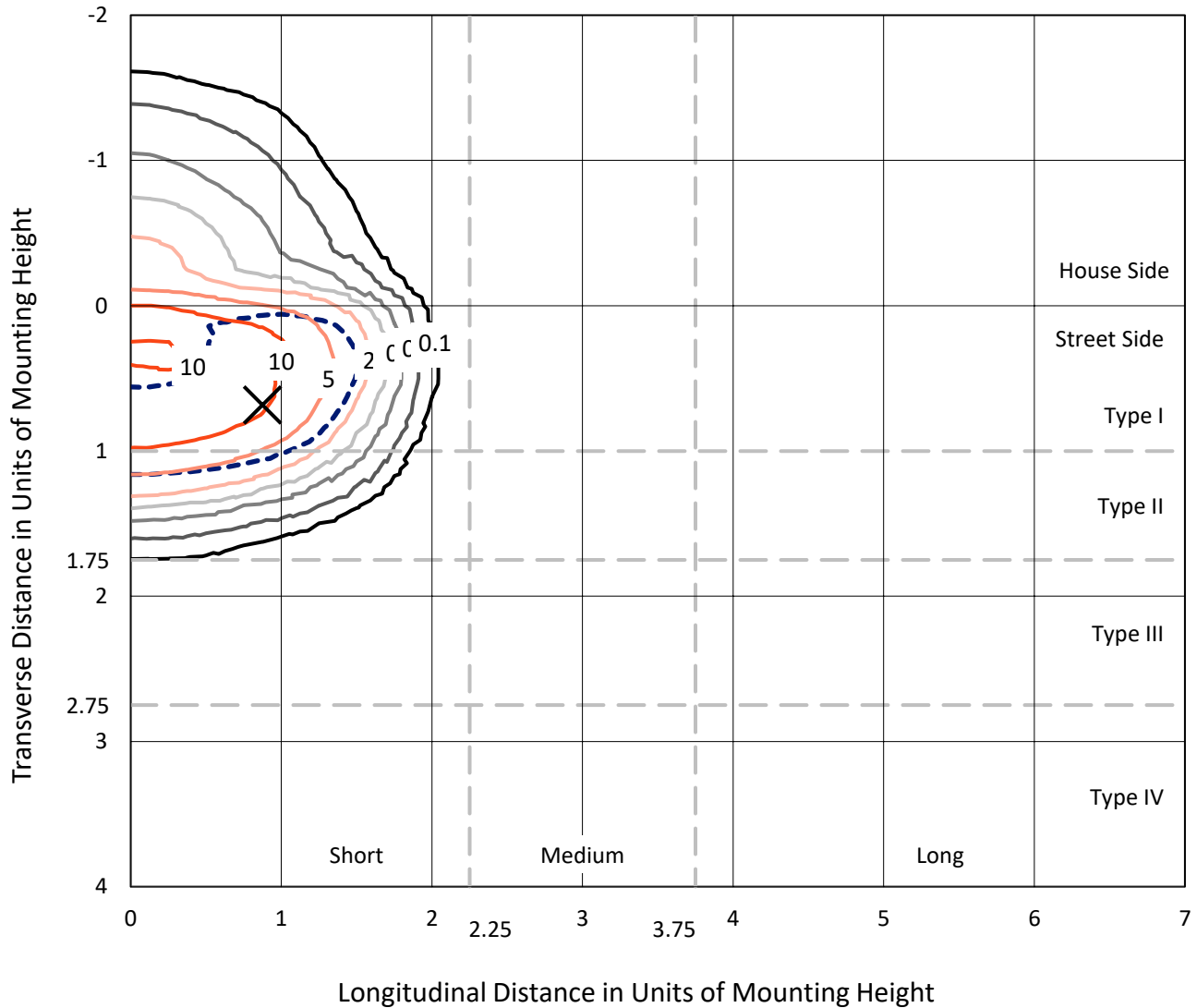
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

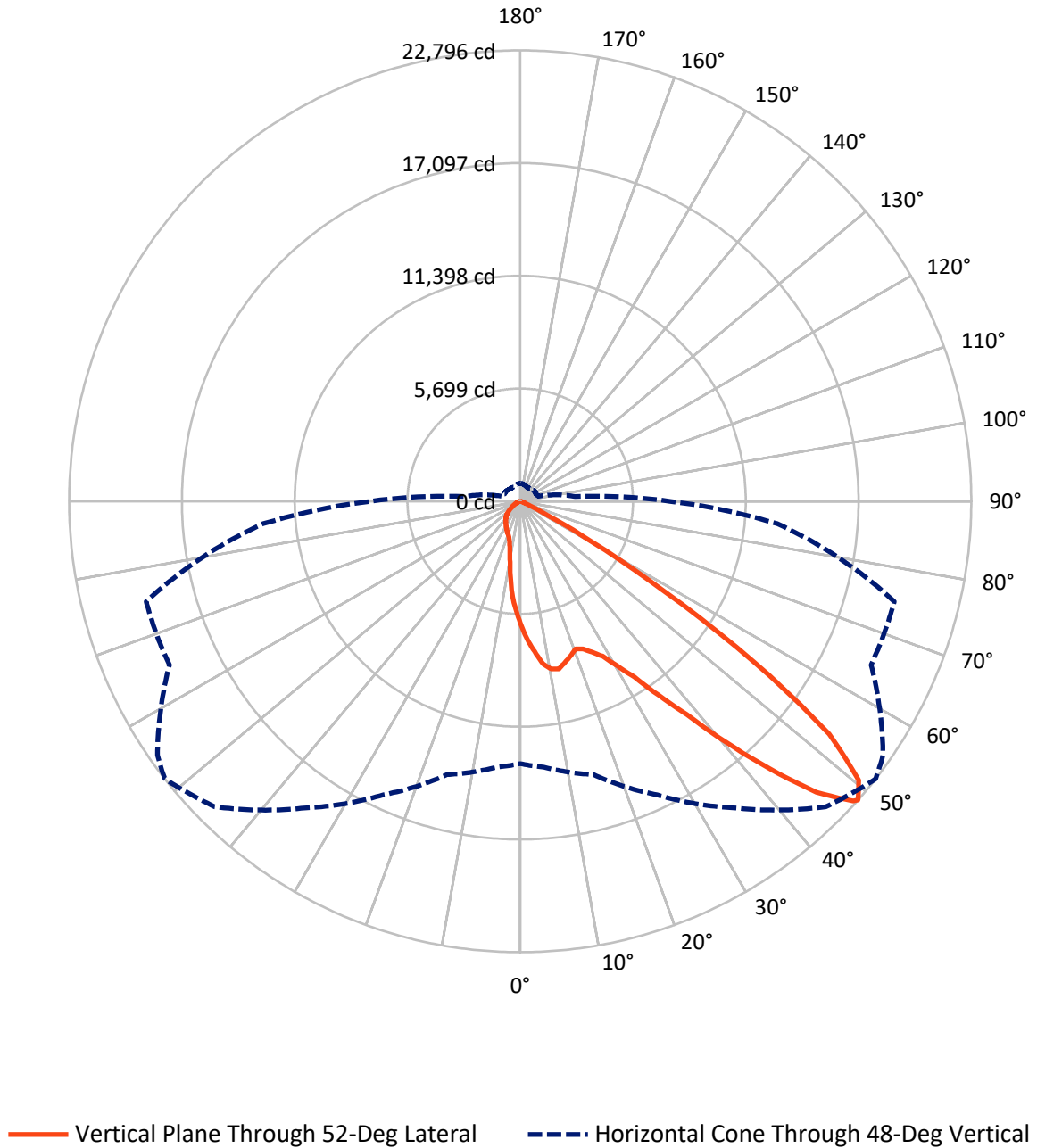
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2646.3	0.0	2646.3
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	19087.7	0.0	19087.7
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	21734.0	0.0	21734.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	574.5	2.6
10°-20°	1501.3	6.9
20°-30°	2563.3	11.8
30°-40°	4720.4	21.7
40°-50°	7330.7	33.7
50°-60°	4411.9	20.3
60°-70°	510.3	2.3
70°-80°	98.8	0.5
80°-90°	22.8	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°	21734.0	100.0
0°-180°	21734.0	100.0

**Coefficient of Utilization**



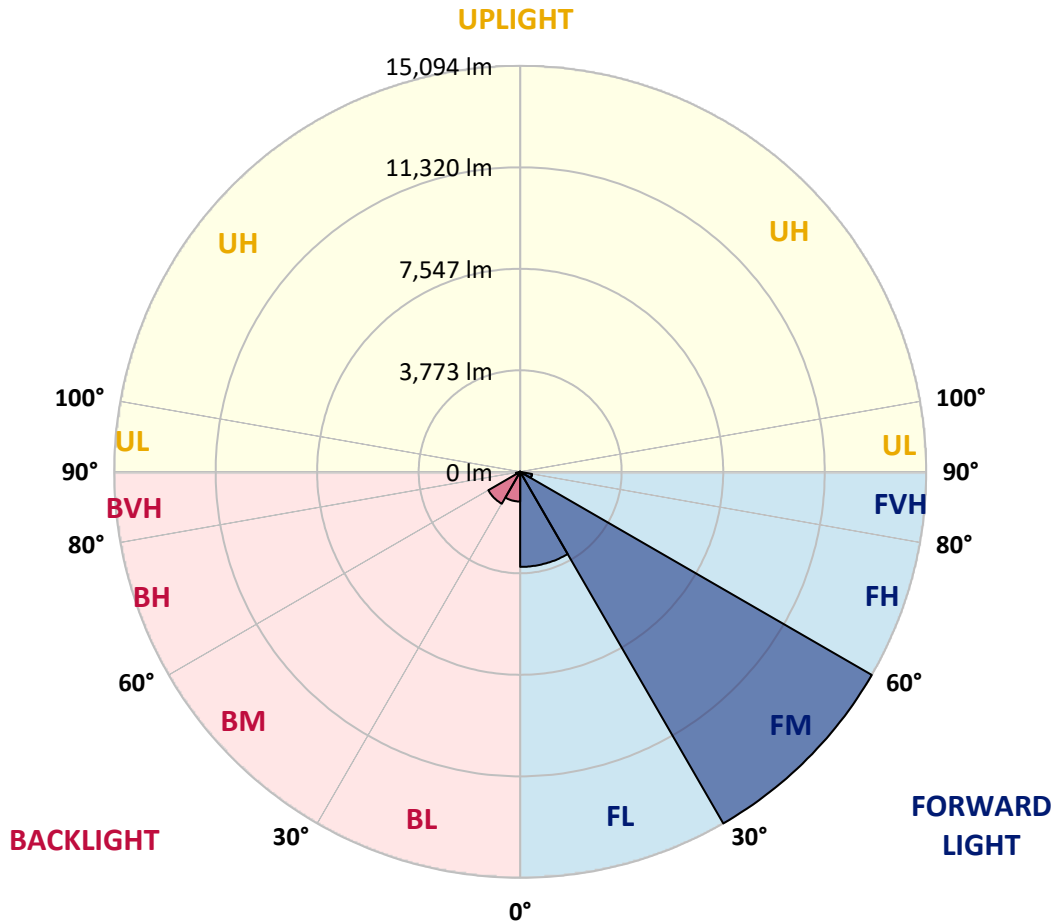
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3533.7	16.3			
FM (30°-60°)	15093.8	69.4			
FH (60°-80°)	449.3	2.1			G0/660
FVH (80°-90°)	10.9	0.1			G1/100
BL (0°-30°)	1105.4	5.1	B3/2500		
BM (30°-60°)	1369.2	6.3	B2/2500		
BH (60°-80°)	159.7	0.7	B1/500		G1/500
BVH (80°-90°)	12.0	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4
2.5°	7607.1	7432.9	7448.7	7334.6	7268.1	7160.4	7014.6	6986.1	6827.7	6612.3	6393.6
5°	8291.5	8250.3	8304.1	8139.4	8145.7	7968.3	7626.1	7632.5	7268.1	6916.4	6577.4
7.5°	8335.8	8240.8	8294.6	8440.4	8525.9	8494.2	8301.0	8133.0	7787.7	7271.3	6777.0
10°	7464.5	7645.1	7702.2	7942.9	8285.1	8646.3	8624.1	8633.6	8345.3	7670.5	6948.1
12.5°	6941.8	6821.4	7014.6	7160.4	7676.8	8377.0	8697.0	8766.7	8788.9	8057.0	7119.2
15°	6704.1	6704.1	6735.8	6777.0	7150.9	7797.2	8449.9	8652.6	9131.1	8563.9	7388.5
17.5°	6853.1	6846.7	6891.1	6805.5	6944.9	7442.4	8221.8	8453.0	9514.4	9061.4	7600.8
20°	7306.1	7328.3	7299.8	7052.7	7062.2	7436.0	7968.3	8332.7	9774.2	9492.3	7882.8
22.5°	7936.6	7949.3	7787.7	7518.4	7439.2	7622.9	8114.0	8392.8	9983.3	10008.7	7968.3
25°	8665.3	8614.6	8582.9	8202.7	7962.0	8120.4	8443.5	8605.1	10113.2	10452.2	8212.3
27.5°	9676.0	9574.6	9381.4	9042.4	8864.9	8640.0	8871.3	9137.4	10483.9	11073.2	8478.4
30°	11168.3	11079.6	10702.5	10265.3	9799.6	9577.8	9650.7	9796.4	11152.4	11792.4	8830.1
32.5°	13414.6	13227.7	12682.7	11849.5	11215.8	10604.3	10585.3	10740.6	11751.3	12787.3	9248.3
35°	15889.1	15832.0	15030.5	14171.8	12945.7	12001.6	12017.4	12099.8	12898.2	14092.6	9796.4
37.5°	17533.4	17847.1	17337.0	16415.0	15385.3	14035.6	13693.4	13721.9	14472.8	15638.8	10784.9
40°	18803.9	18537.8	18598.0	18382.5	17679.2	16760.3	16003.1	15854.2	16294.6	17349.7	11767.1
42.5°	18249.5	18262.1	18632.8	19142.9	19317.2	19250.6	18477.6	18195.6	17853.4	18750.0	12701.7
45°	16684.3	17010.6	17492.2	18841.9	20026.9	21139.0	20986.9	20518.0	18930.6	19859.0	13240.4
47.5°	14187.7	14175.0	14963.9	16719.2	19352.0	21956.4	22647.1	22317.6	19694.2	19735.4	13129.5
48°	13265.7	13493.8	14308.1	16373.8	18924.3	21836.0	22796.0	22380.9	19564.3	19570.6	13034.4
50°	9805.9	9764.7	10778.6	13313.2	16902.9	20518.0	22168.7	22491.8	19561.1	18737.4	12369.1
52.5°	5180.2	5357.6	6095.8	8370.7	11950.9	16792.0	19554.8	20058.6	18870.4	17375.0	11412.2
55°	2202.0	1989.7	2556.8	3779.8	6723.1	11219.0	14346.1	15467.7	15955.6	15375.8	9983.3
57.5°	785.7	858.6	988.5	1422.6	2826.1	6140.2	8554.4	9425.7	11054.2	11282.3	6802.4
60°	503.8	513.3	554.5	652.7	1061.4	2366.7	4058.6	4752.5	5490.7	5668.1	3174.6
62.5°	389.7	392.9	411.9	427.7	503.8	918.8	1524.0	1805.9	1875.6	1612.7	833.3
65°	326.3	329.5	335.8	335.8	358.0	430.9	532.3	586.1	570.3	564.0	472.1
67.5°	250.3	256.6	269.3	269.3	282.0	263.0	294.7	313.7	354.9	430.9	402.4
70°	196.4	199.6	209.1	215.4	215.4	190.1	212.3	231.3	259.8	320.0	316.8
72.5°	152.1	158.4	164.8	164.8	155.2	129.9	152.1	167.9	186.9	221.8	215.4
75°	117.2	117.2	120.4	98.2	76.0	66.5	91.9	110.9	139.4	145.7	120.4
77.5°	31.7	34.9	31.7	28.5	31.7	47.5	60.2	69.7	88.7	88.7	79.2
80°	0.0	3.2	9.5	19.0	31.7	44.4	53.9	60.2	69.7	76.0	72.9
82.5°	0.0	3.2	9.5	19.0	28.5	34.9	47.5	50.7	57.0	66.5	66.5
85°	0.0	3.2	6.3	12.7	19.0	22.2	22.2	19.0	19.0	15.8	12.7
87.5°	0.0	0.0	3.2	6.3	6.3	9.5	9.5	9.5	9.5	9.5	9.5
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°	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4	6276.4
2.5°	6308.1	6209.9	6061.0	5826.5	5601.6	5455.8	5316.4	5161.2	5075.6	5069.3	5021.8
5°	6384.1	6162.4	5807.5	5405.1	4974.2	4603.6	4229.7	3985.7	3767.1	3646.7	3624.5
7.5°	6425.3	6137.0	5563.5	4888.7	4153.7	3548.5	3130.3	2823.0	2702.6	2613.9	2610.7
10°	6510.9	6092.7	5199.2	4204.3	3295.0	2683.6	2395.2	2255.8	2189.3	2164.0	2125.9
12.5°	6574.2	6010.3	4825.3	3501.0	2604.3	2224.2	2097.4	2065.7	2068.9	2081.6	2065.7
15°	6663.0	5937.4	4321.6	2873.7	2186.1	2002.4	2002.4	2008.7	2053.1	2059.4	2056.2
17.5°	6656.6	5794.8	3802.0	2366.7	1932.7	1907.3	1916.8	1977.0	2005.5	2015.0	1992.9
20°	6732.7	5661.8	3266.5	2021.4	1790.1	1828.1	1891.5	1907.3	1942.2	1948.5	1923.2
22.5°	6710.5	5329.1	2769.1	1748.9	1682.4	1755.2	1818.6	1837.6	1828.1	1809.1	1805.9
25°	6669.3	5043.9	2312.9	1568.3	1603.2	1682.4	1742.6	1707.7	1688.7	1691.9	1695.0
27.5°	6596.4	4682.8	1935.8	1441.6	1495.4	1612.7	1609.5	1596.8	1615.8	1600.0	1615.8
30°	6583.7	4321.6	1625.3	1327.5	1416.2	1501.8	1508.1	1530.3	1552.5	1524.0	1552.5
32.5°	6602.8	3925.5	1403.6	1257.8	1368.7	1371.9	1441.6	1463.8	1447.9	1384.6	1390.9
35°	6748.5	3621.4	1242.0	1219.8	1292.7	1295.8	1362.4	1333.9	1264.2	1226.1	1248.3
37.5°	7055.8	3367.9	1165.9	1184.9	1191.3	1232.5	1235.6	1178.6	1184.9	1181.8	1194.5
40°	7448.7	3174.6	1112.1	1153.3	1146.9	1175.4	1061.4	1093.1	1121.6	1131.1	1137.4
42.5°	7718.0	3035.2	1077.2	1102.6	1089.9	1039.2	975.8	1007.5	1029.7	1064.6	1070.9
45°	7838.4	2924.3	1036.0	1013.9	1013.9	922.0	896.6	903.0	953.7	991.7	985.3
47.5°	7642.0	2816.6	963.2	896.6	918.8	842.8	814.3	814.3	868.1	915.6	906.1
48°	7565.9	2772.3	966.3	871.3	887.1	830.1	801.6	795.2	855.4	899.8	899.8
50°	7188.9	2607.5	884.0	801.6	769.9	763.6	744.6	750.9	788.9	830.1	830.1
52.5°	6453.8	2252.7	747.7	687.5	630.5	668.5	678.0	665.3	684.4	722.4	719.2
55°	5386.1	1729.9	598.8	570.3	525.9	567.1	586.1	570.3	551.3	579.8	579.8
57.5°	3450.3	931.5	478.4	484.8	440.4	481.6	497.4	459.4	424.6	446.7	443.6
60°	1555.6	557.6	392.9	383.4	354.9	402.4	427.7	383.4	335.8	351.7	367.5
62.5°	583.0	396.0	297.8	291.5	285.1	329.5	342.2	307.3	259.8	269.3	272.5
65°	427.7	348.5	237.6	215.4	228.1	259.8	253.5	218.6	186.9	186.9	193.3
67.5°	364.4	304.2	193.3	167.9	167.9	171.1	158.4	139.4	129.9	136.2	142.6
70°	285.1	240.8	152.1	129.9	117.2	104.6	91.9	88.7	79.2	88.7	85.5
72.5°	183.8	161.6	117.2	98.2	88.7	72.9	60.2	57.0	47.5	44.4	44.4
75°	98.2	98.2	91.9	79.2	69.7	57.0	47.5	38.0	25.3	19.0	19.0
77.5°	69.7	76.0	82.4	76.0	63.4	47.5	38.0	25.3	12.7	6.3	6.3
80°	66.5	76.0	82.4	72.9	63.4	47.5	34.9	19.0	9.5	3.2	3.2
82.5°	60.2	69.7	76.0	66.5	57.0	41.2	31.7	19.0	9.5	3.2	3.2
85°	12.7	15.8	19.0	19.0	22.2	28.5	22.2	15.8	6.3	3.2	3.2
87.5°	9.5	9.5	9.5	9.5	9.5	9.5	6.3	6.3	3.2	3.2	3.2
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)