

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: P652487

Luminaire Tested: **GALN-SA7B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652487  
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-840-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 24864.2 lumens  
Efficiency: N/A  
Efficacy: 86.9 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

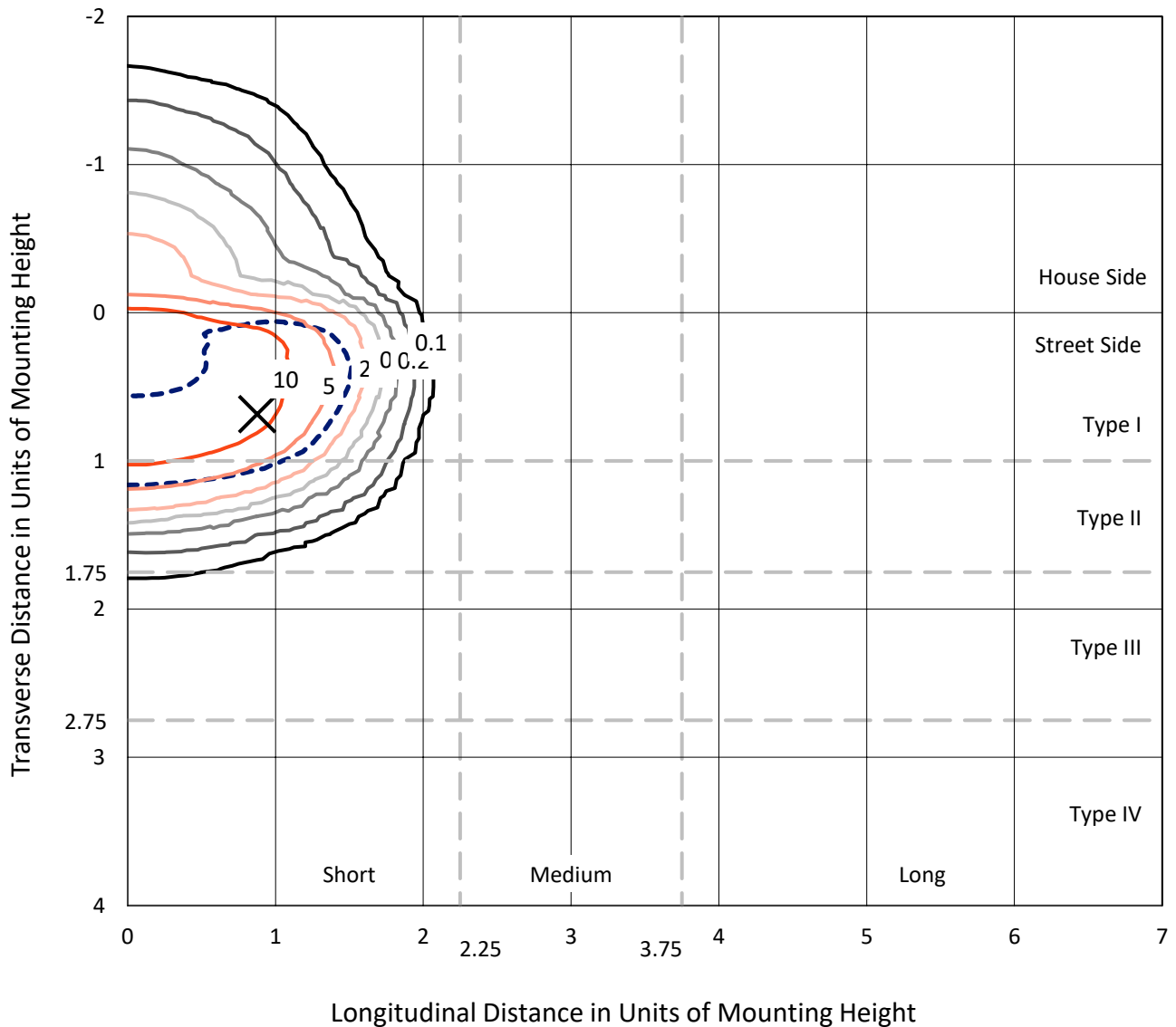
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

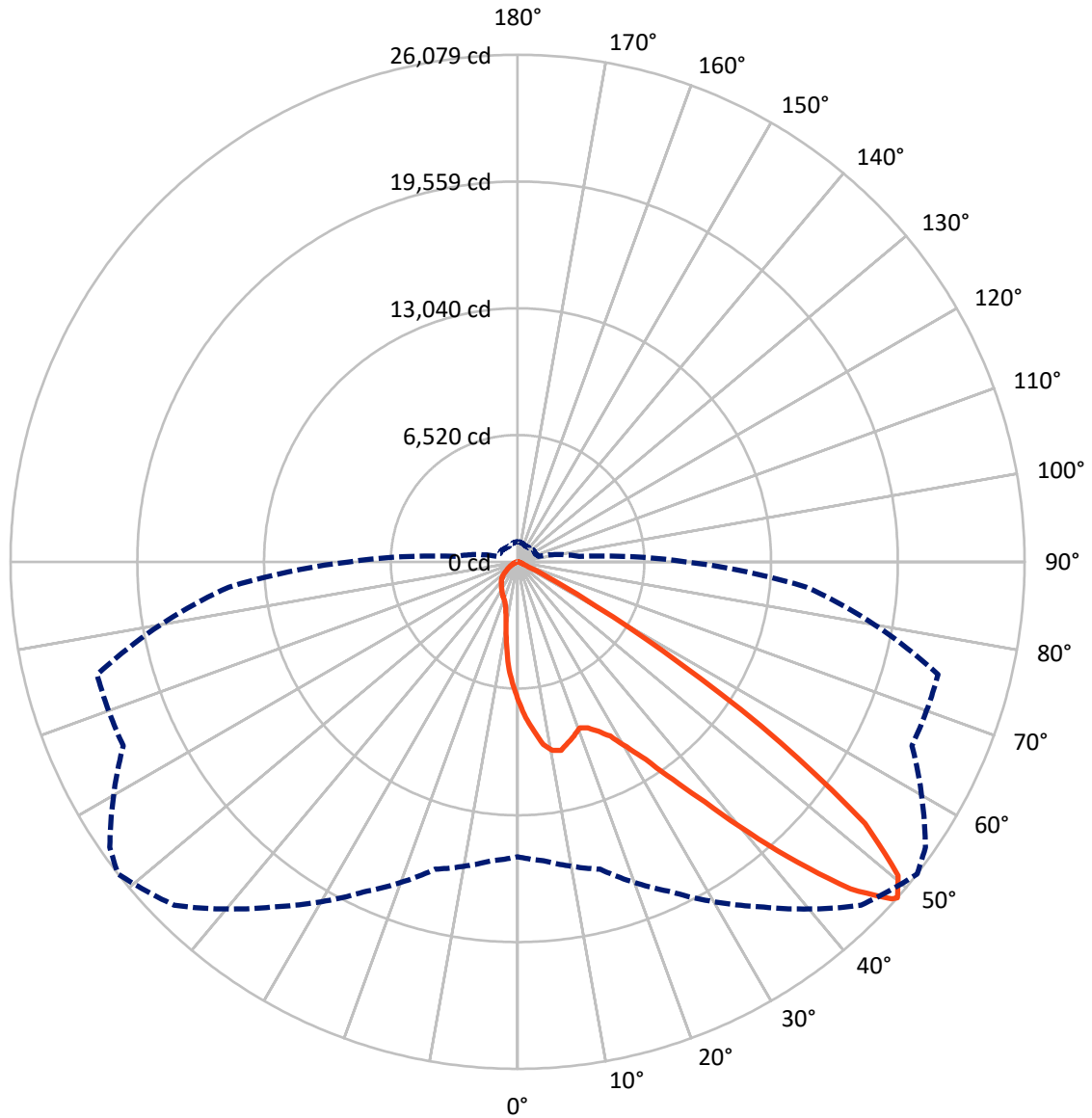
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 48-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3027.4	0.0	3027.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	21836.8	0.0	21836.8
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	24864.2	0.0	24864.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	657.2	2.6
10°-20°	1717.5	6.9
20°-30°	2932.5	11.8
30°-40°	5400.2	21.7
40°-50°	8386.5	33.7
50°-60°	5047.3	20.3
60°-70°	583.8	2.3
70°-80°	113.0	0.5
80°-90°	26.1	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°	24864.2	100.0
0°-180°	24864.2	100.0

**Coefficient of Utilization**



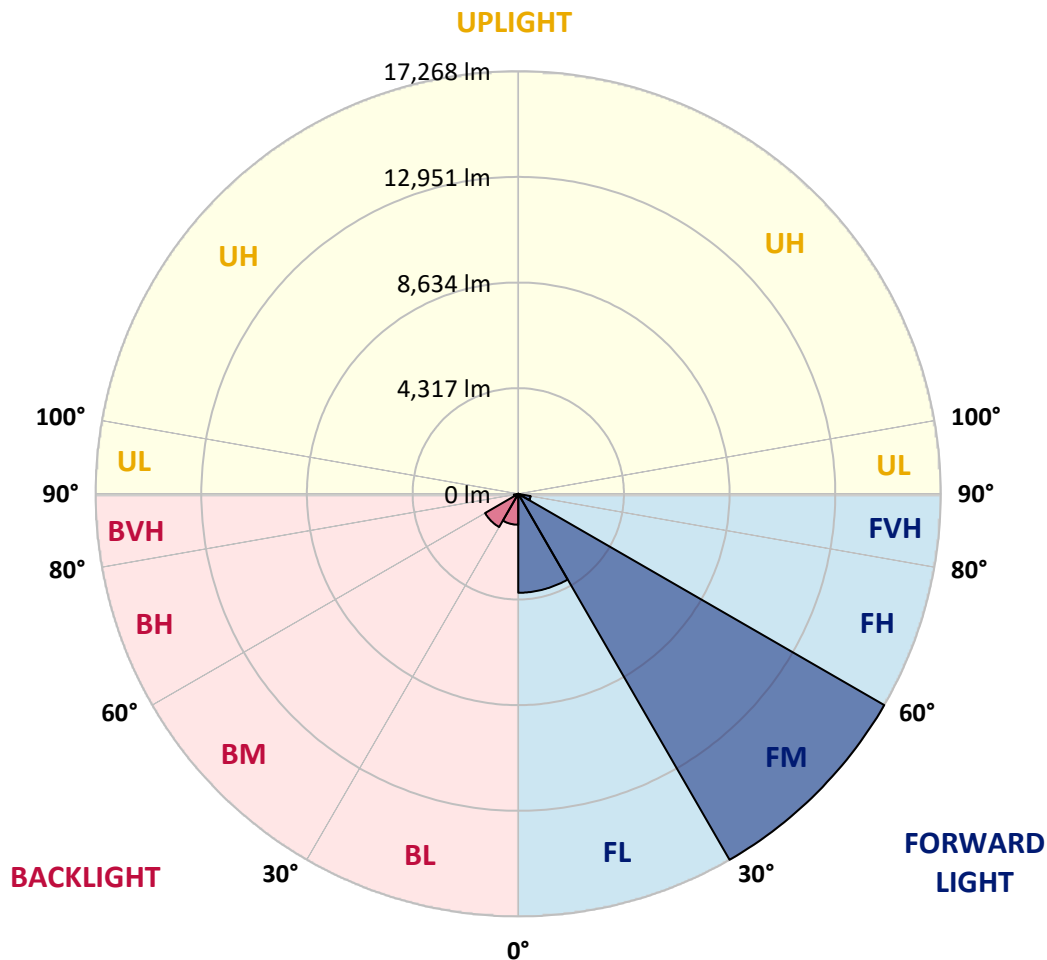
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4042.6	16.3			
FM (30°-60°)	17267.7	69.4			
FH (60°-80°)	514.1	2.1			G0/660
FVH (80°-90°)	12.4	0.0			G1/100
BL (0°-30°)	1264.7	5.1	B3/2500		
BM (30°-60°)	1566.3	6.3	B2/2500		
BH (60°-80°)	182.7	0.7	B1/500		G1/500
BVH (80°-90°)	13.7	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°	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4
2.5°	8702.7	8503.4	8521.4	8391.0	8314.9	8191.6	8024.9	7992.3	7811.0	7564.5	7314.4
5°	9485.6	9438.5	9500.1	9311.6	9318.9	9115.9	8724.4	8731.7	8314.9	7912.5	7524.7
7.5°	9536.4	9427.6	9489.3	9655.9	9753.8	9717.6	9496.5	9304.4	8909.3	8318.5	7753.0
10°	8539.6	8746.2	8811.4	9086.9	9478.3	9891.6	9866.2	9877.0	9547.2	8775.2	7948.8
12.5°	7941.6	7803.8	8024.9	8191.6	8782.4	9583.4	9949.5	10029.3	10054.7	9217.4	8144.5
15°	7669.7	7669.7	7705.9	7753.0	8180.7	8920.2	9666.9	9898.8	10446.1	9797.3	8452.6
17.5°	7840.1	7832.8	7883.5	7785.6	7945.2	8514.2	9405.8	9670.5	10884.7	10366.4	8695.4
20°	8358.4	8383.8	8351.1	8068.4	8079.2	8507.0	9115.9	9532.7	11181.9	10859.3	9018.0
22.5°	9079.7	9094.2	8909.3	8601.2	8510.6	8720.8	9282.6	9601.6	11421.1	11450.1	9115.9
25°	9913.3	9855.3	9819.1	9384.1	9108.6	9289.9	9659.6	9844.4	11569.8	11957.6	9395.0
27.5°	11069.6	10953.6	10732.5	10344.6	10141.7	9884.4	10148.9	10453.4	11993.8	12668.0	9699.5
30°	12776.7	12675.3	12244.0	11743.7	11211.0	10957.2	11040.6	11207.3	12758.6	13490.8	10101.8
32.5°	15346.7	15132.8	14509.4	13556.1	12831.1	12131.6	12109.8	12287.4	13443.7	14628.9	10580.3
35°	18177.5	18112.2	17195.2	16212.9	14810.2	13730.0	13748.2	13842.4	14755.8	16122.3	11207.3
37.5°	20058.6	20417.5	19833.9	18779.1	17601.1	16057.0	15665.6	15698.2	16557.3	17891.1	12338.1
40°	21512.1	21207.6	21276.5	21030.0	20225.4	19174.2	18307.9	18137.6	18641.4	19848.4	13461.8
42.5°	20877.7	20892.3	21316.3	21899.9	22099.3	22023.2	21138.7	20816.2	20424.7	21450.5	14531.1
45°	19087.3	19460.6	20011.5	21555.6	22911.2	24183.4	24009.5	23473.0	21657.1	22719.1	15147.3
47.5°	16231.0	16216.5	17119.1	19127.1	22139.2	25118.6	25908.8	25531.8	22530.6	22577.7	15020.4
48°	15176.3	15437.2	16368.7	18732.0	21649.8	24980.8	26079.1	25604.2	22382.0	22389.3	14911.7
50°	11218.2	11171.1	12330.9	15230.6	19337.3	23473.0	25361.4	25731.2	22378.3	21436.0	14150.5
52.5°	5926.3	6129.2	6973.7	9576.2	13672.1	19210.5	22371.1	22947.4	21588.2	19877.4	13055.9
55°	2519.1	2276.3	2925.1	4324.2	7691.4	12834.8	16412.3	17695.4	18253.6	17590.3	11421.1
57.5°	898.9	982.3	1130.9	1627.4	3233.1	7024.5	9786.5	10783.2	12646.3	12907.2	7782.0
60°	576.3	587.2	634.3	746.6	1214.2	2707.6	4643.2	5436.9	6281.4	6484.4	3631.9
62.5°	445.8	449.4	471.2	489.3	576.3	1051.2	1743.5	2066.0	2145.8	1844.9	953.3
65°	373.3	376.9	384.2	384.2	409.6	492.9	609.0	670.5	652.4	645.2	540.1
67.5°	286.4	293.6	308.1	308.1	322.6	300.8	337.1	358.9	406.0	492.9	460.4
70°	224.7	228.3	239.3	246.5	246.5	217.5	242.9	264.6	297.2	366.1	362.5
72.5°	174.0	181.2	188.5	188.5	177.6	148.6	174.0	192.1	213.9	253.7	246.5
75°	134.1	134.1	137.8	112.4	87.0	76.1	105.1	126.8	159.5	166.8	137.8
77.5°	36.2	39.9	36.2	32.6	36.2	54.3	68.9	79.7	101.5	101.5	90.6
80°	0.0	3.6	10.8	21.8	36.2	50.7	61.6	68.9	79.7	87.0	83.3
82.5°	0.0	3.6	10.8	21.8	32.6	39.9	54.3	58.0	65.3	76.1	76.1
85°	0.0	3.6	7.2	14.5	21.8	25.4	25.4	21.8	21.8	18.1	14.5
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	10.8	10.8	10.8	10.8	10.8
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°	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4	7180.4
2.5°	7216.6	7104.3	6933.9	6665.7	6408.3	6241.6	6082.1	5904.5	5806.6	5799.4	5745.0
5°	7303.6	7049.9	6643.9	6183.6	5690.6	5266.6	4838.9	4559.7	4309.7	4171.9	4146.6
7.5°	7350.7	7020.8	6364.9	5592.8	4751.9	4059.6	3581.1	3229.5	3091.8	2990.3	2986.6
10°	7448.6	6970.1	5948.0	4809.8	3769.6	3070.1	2740.2	2580.7	2504.6	2475.7	2432.1
12.5°	7521.1	6875.9	5520.3	4005.2	2979.4	2544.4	2399.5	2363.2	2366.9	2381.4	2363.2
15°	7622.6	6792.5	4944.0	3287.6	2501.0	2290.7	2290.7	2298.0	2348.7	2356.0	2352.4
17.5°	7615.3	6629.4	4349.6	2707.6	2211.0	2182.1	2192.9	2261.8	2294.4	2305.3	2279.9
20°	7702.3	6477.2	3737.0	2312.5	2047.9	2091.4	2163.9	2182.1	2221.9	2229.2	2200.1
22.5°	7676.9	6096.6	3167.9	2000.8	1924.6	2008.1	2080.5	2102.2	2091.4	2069.6	2066.0
25°	7629.8	5770.4	2646.0	1794.2	1834.1	1924.6	1993.5	1953.6	1931.9	1935.6	1939.2
27.5°	7546.5	5357.2	2214.6	1649.2	1710.8	1844.9	1841.3	1826.8	1848.5	1830.4	1848.5
30°	7531.9	4944.0	1859.5	1518.7	1620.2	1718.1	1725.3	1750.7	1776.0	1743.5	1776.0
32.5°	7553.7	4490.9	1605.7	1439.0	1565.9	1569.5	1649.2	1674.6	1656.4	1583.9	1591.2
35°	7720.5	4142.9	1420.9	1395.5	1478.8	1482.4	1558.6	1526.0	1446.2	1402.7	1428.1
37.5°	8072.0	3853.0	1333.8	1355.6	1362.8	1409.9	1413.6	1348.4	1355.6	1352.0	1366.5
40°	8521.4	3631.9	1272.3	1319.4	1312.1	1344.8	1214.2	1250.5	1283.1	1294.0	1301.2
42.5°	8829.6	3472.4	1232.4	1261.3	1246.9	1188.8	1116.3	1152.6	1178.0	1217.9	1225.1
45°	8967.3	3345.5	1185.2	1159.9	1159.9	1054.8	1025.8	1033.0	1091.0	1134.5	1127.3
47.5°	8742.5	3222.3	1101.9	1025.8	1051.2	964.1	931.5	931.5	993.1	1047.5	1036.6
48°	8655.6	3171.5	1105.5	996.8	1014.9	949.7	917.0	909.8	978.7	1029.4	1029.4
50°	8224.2	2983.0	1011.3	917.0	880.8	873.5	851.8	859.0	902.6	949.7	949.7
52.5°	7383.3	2577.1	855.4	786.5	721.3	764.8	775.7	761.2	782.9	826.5	822.8
55°	6161.8	1979.0	685.1	652.4	601.7	648.8	670.5	652.4	630.7	663.3	663.3
57.5°	3947.2	1065.6	547.3	554.6	503.8	550.9	569.1	525.5	485.7	511.1	507.5
60°	1779.7	637.9	449.4	438.6	406.0	460.4	489.3	438.6	384.2	402.3	420.4
62.5°	666.9	453.0	340.7	333.5	326.2	376.9	391.5	351.6	297.2	308.1	311.8
65°	489.3	398.7	271.8	246.5	261.0	297.2	290.0	250.1	213.9	213.9	221.1
67.5°	416.8	347.9	221.1	192.1	192.1	195.7	181.2	159.5	148.6	155.8	163.1
70°	326.2	275.5	174.0	148.6	134.1	119.6	105.1	101.5	90.6	101.5	97.9
72.5°	210.2	184.9	134.1	112.4	101.5	83.3	68.9	65.3	54.3	50.7	50.7
75°	112.4	112.4	105.1	90.6	79.7	65.3	54.3	43.5	29.0	21.8	21.8
77.5°	79.7	87.0	94.3	87.0	72.5	54.3	43.5	29.0	14.5	7.2	7.2
80°	76.1	87.0	94.3	83.3	72.5	54.3	39.9	21.8	10.8	3.6	3.6
82.5°	68.9	79.7	87.0	76.1	65.3	47.1	36.2	21.8	10.8	3.6	3.6
85°	14.5	18.1	21.8	21.8	25.4	32.6	25.4	18.1	7.2	3.6	3.6
87.5°	10.8	10.8	10.8	10.8	10.8	10.8	7.2	7.2	3.6	3.6	3.6
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)