

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: P531945

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531945  
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-735-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 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: 27542 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

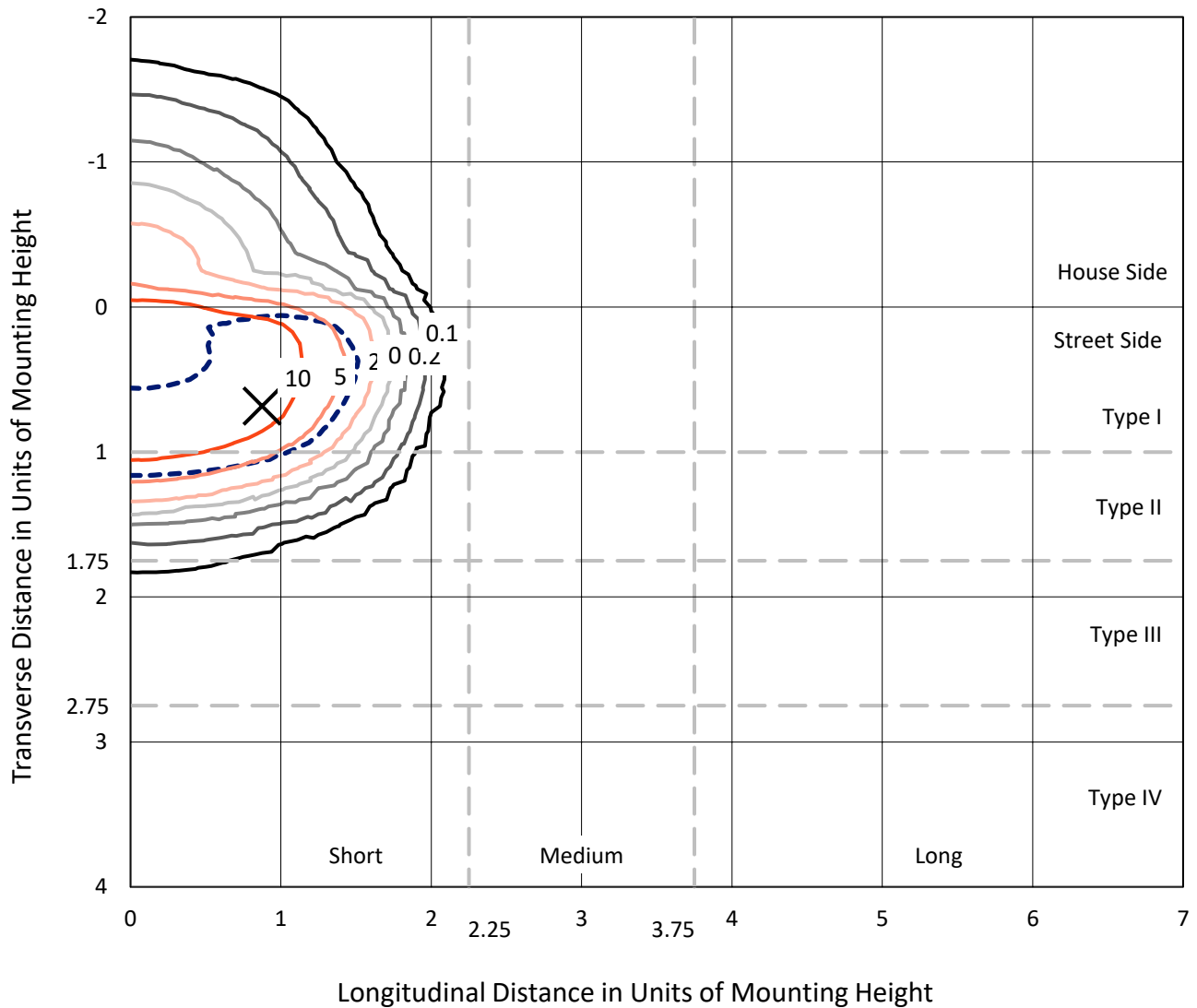
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

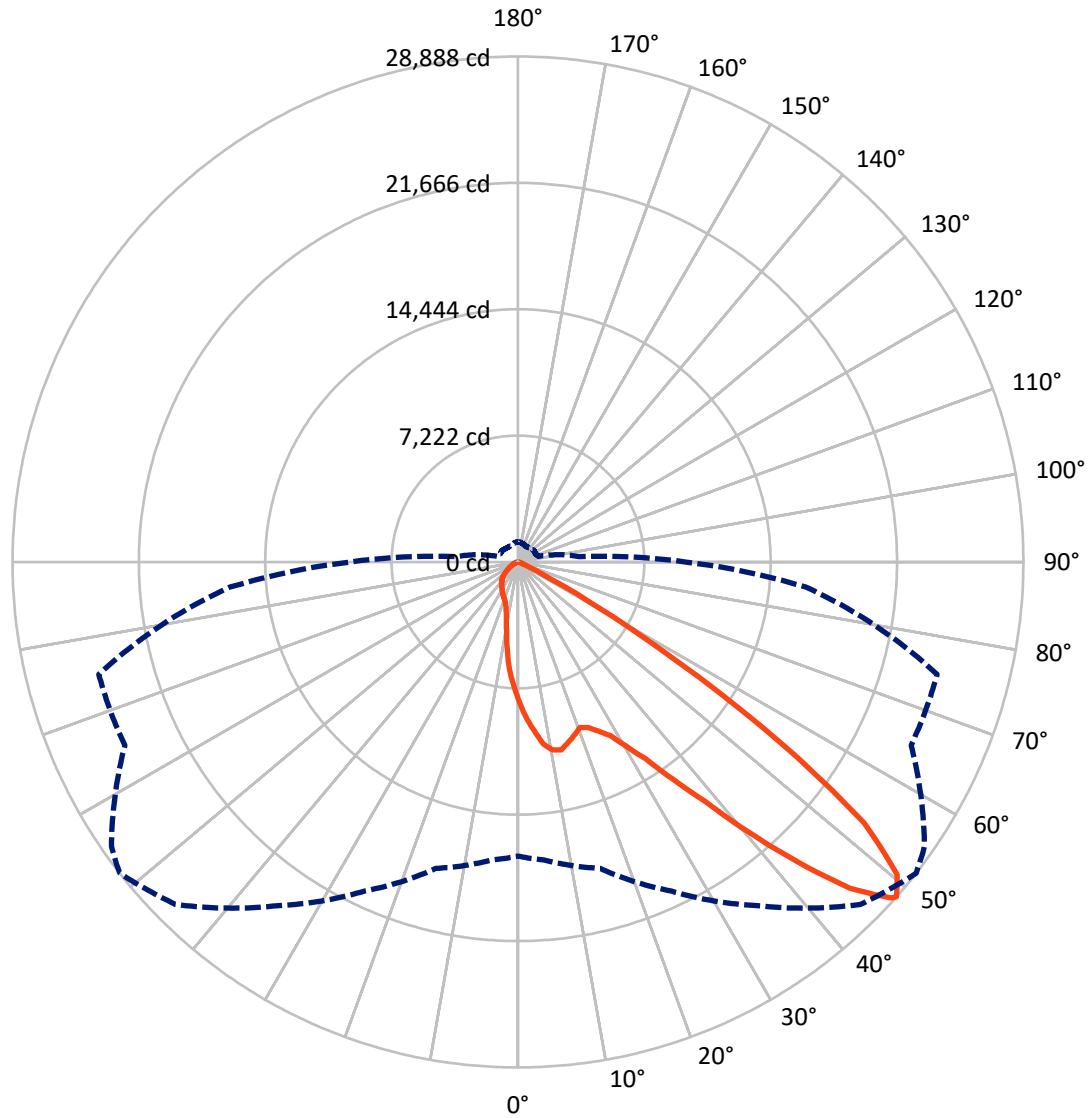
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc  
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA7B-735-U-AFL-GRSBK

### 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	3353.4	0.0	3353.4
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	24188.5	0.0	24188.5
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	27542.0	0.0	27542.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	728.0	2.6
10°-20°	1902.5	6.9
20°-30°	3248.3	11.8
30°-40°	5981.8	21.7
40°-50°	9289.7	33.7
50°-60°	5590.9	20.3
60°-70°	646.6	2.3
70°-80°	125.2	0.5
80°-90°	28.9	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°	27542.0	100.0
0°-180°	27542.0	100.0

**Coefficient of Utilization**

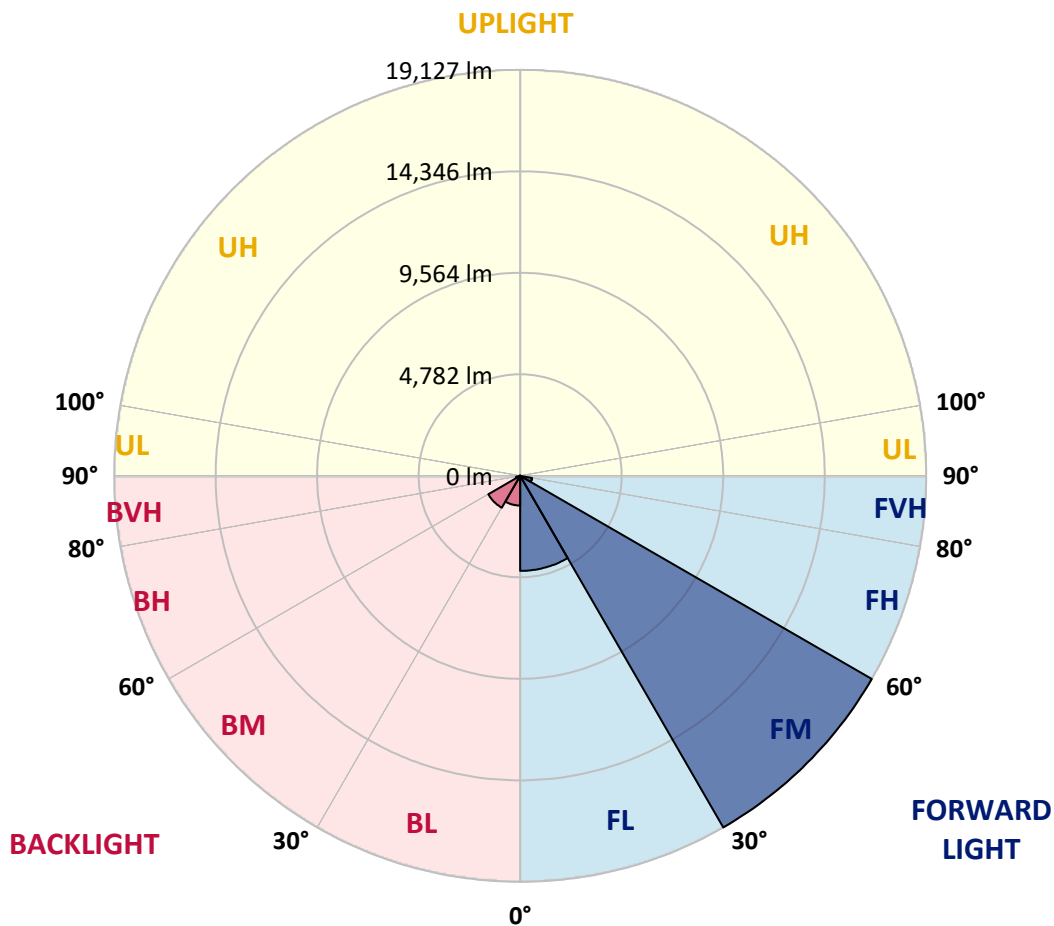


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4478.0	16.3			
FM (30°-60°)	19127.4	69.4			
FH (60°-80°)	569.4	2.1			G0/660
FVH (80°-90°)	13.8	0.0			G1/100
BL (0°-30°)	1400.9	5.1	B3/2500		
BM (30°-60°)	1735.0	6.3	B2/2500		
BH (60°-80°)	202.4	0.7	B1/500		G1/500
BVH (80°-90°)	15.2	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°	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7
2.5°	9640.0	9419.1	9439.2	9294.7	9210.4	9073.9	8889.2	8853.0	8652.3	8379.3	8102.2
5°	10507.2	10455.0	10523.3	10314.5	10322.5	10097.7	9664.1	9672.1	9210.4	8764.7	8335.1
7.5°	10563.4	10443.0	10511.2	10695.9	10804.3	10764.2	10519.2	10306.4	9868.8	9214.4	8588.0
10°	9459.3	9688.1	9760.4	10065.6	10499.2	10956.9	10928.8	10940.8	10575.5	9720.3	8804.8
12.5°	8796.8	8644.2	8889.2	9073.9	9728.3	10615.6	11021.1	11109.4	11137.5	10210.1	9021.7
15°	8495.7	8495.7	8535.8	8588.0	9061.8	9880.9	10707.9	10964.9	11571.2	10852.5	9362.9
17.5°	8684.4	8676.4	8732.6	8624.2	8800.8	9431.2	10418.9	10712.0	12057.0	11482.8	9631.9
20°	9258.5	9286.6	9250.5	8937.3	8949.4	9423.2	10097.7	10559.4	12386.2	12028.9	9989.3
22.5°	10057.5	10073.6	9868.8	9527.5	9427.2	9660.0	10282.4	10635.7	12651.2	12683.3	10097.7
25°	10981.0	10916.7	10876.6	10394.8	10089.6	10290.4	10699.9	10904.7	12815.8	13245.4	10406.8
27.5°	12261.7	12133.3	11888.4	11458.7	11233.9	10948.8	11241.9	11579.2	13285.6	14032.3	10744.1
30°	14152.8	14040.4	13562.6	13008.5	12418.3	12137.3	12229.6	12414.3	14132.7	14943.7	11189.7
32.5°	16999.4	16762.5	16072.0	15016.0	14213.0	13438.1	13414.0	13610.8	14891.6	16204.5	11719.7
35°	20135.1	20062.8	19047.1	17959.0	16405.2	15208.7	15228.8	15333.2	16345.0	17858.6	12414.3
37.5°	22218.9	22616.4	21970.0	20801.6	19496.7	17786.4	17352.7	17388.9	18340.4	19817.9	13667.0
40°	23828.9	23491.6	23567.9	23294.9	22403.6	21239.2	20279.7	20091.0	20649.0	21986.0	14911.6
42.5°	23126.3	23142.3	23612.1	24258.5	24479.3	24395.0	23415.4	23058.0	22624.4	23760.6	16096.0
45°	21142.9	21556.4	22166.7	23877.1	25378.7	26787.9	26595.2	26001.0	23989.5	25165.9	16778.6
47.5°	17979.1	17963.0	18962.7	21187.0	24523.5	27823.8	28699.1	28281.5	24957.1	25009.3	16638.1
48°	16810.7	17099.8	18131.6	20749.4	23981.5	27671.2	28887.8	28361.8	24792.5	24800.5	16517.6
50°	12426.4	12374.2	13659.0	16870.9	21419.9	26001.0	28092.8	28502.3	24788.5	23744.6	15674.5
52.5°	6564.5	6789.3	7724.8	10607.6	15144.5	21279.4	24780.4	25418.8	23913.2	22018.1	14462.0
55°	2790.4	2521.4	3240.1	4789.9	8519.8	14217.0	18179.8	19601.1	20219.4	19484.7	12651.2
57.5°	995.7	1088.1	1252.7	1802.7	3581.4	7781.0	10840.4	11944.6	14008.3	14297.3	8620.2
60°	638.4	650.4	702.6	827.1	1345.0	2999.2	5143.2	6022.5	6958.0	7182.8	4023.0
62.5°	493.8	497.9	521.9	542.0	638.4	1164.3	1931.2	2288.5	2376.9	2043.6	1055.9
65°	413.5	417.6	425.6	425.6	453.7	546.0	674.5	742.8	722.7	714.7	598.2
67.5°	317.2	325.2	341.3	341.3	357.3	333.2	373.4	397.5	449.7	546.0	509.9
70°	248.9	252.9	265.0	273.0	273.0	240.9	269.0	293.1	329.2	405.5	401.5
72.5°	192.7	200.7	208.8	208.8	196.7	164.6	192.7	212.8	236.9	281.0	273.0
75°	148.6	148.6	152.6	124.5	96.4	84.3	116.4	140.5	176.7	184.7	152.6
77.5°	40.1	44.2	40.1	36.1	40.1	60.2	76.3	88.3	112.4	112.4	100.4
80°	0.0	4.0	12.0	24.1	40.1	56.2	68.3	76.3	88.3	96.4	92.3
82.5°	0.0	4.0	12.0	24.1	36.1	44.2	60.2	64.2	72.3	84.3	84.3
85°	0.0	4.0	8.0	16.1	24.1	28.1	28.1	24.1	24.1	20.1	16.1
87.5°	0.0	0.0	4.0	8.0	8.0	12.0	12.0	12.0	12.0	12.0	12.0
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°	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7	7953.7
2.5°	7993.8	7869.4	7680.7	7383.5	7098.5	6913.8	6737.1	6540.4	6432.0	6424.0	6363.7
5°	8090.2	7809.1	7359.5	6849.6	6303.5	5833.8	5360.0	5050.8	4773.8	4621.2	4593.1
7.5°	8142.4	7777.0	7050.3	6195.1	5263.6	4496.8	3966.8	3577.3	3424.8	3312.4	3308.3
10°	8250.8	7720.8	6588.6	5327.9	4175.6	3400.7	3035.3	2858.7	2774.4	2742.2	2694.1
12.5°	8331.1	7616.4	6114.8	4436.6	3300.3	2818.5	2657.9	2617.8	2621.8	2637.8	2617.8
15°	8443.5	7524.1	5476.4	3641.6	2770.3	2537.5	2537.5	2545.5	2601.7	2609.7	2605.7
17.5°	8435.5	7343.4	4818.0	2999.2	2449.1	2417.0	2429.1	2505.3	2541.5	2553.5	2525.4
20°	8531.8	7174.8	4139.4	2561.6	2268.5	2316.6	2396.9	2417.0	2461.2	2469.2	2437.1
22.5°	8503.7	6753.2	3509.1	2216.3	2132.0	2224.3	2304.6	2328.7	2316.6	2292.6	2288.5
25°	8451.5	6391.8	2930.9	1987.4	2031.6	2132.0	2208.2	2164.1	2140.0	2144.0	2148.0
27.5°	8359.2	5934.1	2453.2	1826.8	1895.1	2043.6	2039.6	2023.5	2047.6	2027.6	2047.6
30°	8343.1	5476.4	2059.7	1682.3	1794.7	1903.1	1911.1	1939.2	1967.3	1931.2	1967.3
32.5°	8367.2	4974.6	1778.6	1593.9	1734.5	1738.5	1826.8	1854.9	1834.8	1754.5	1762.6
35°	8551.9	4589.1	1573.9	1545.8	1638.1	1642.1	1726.4	1690.3	1602.0	1553.8	1581.9
37.5°	8941.4	4267.9	1477.5	1501.6	1509.6	1561.8	1565.8	1493.6	1501.6	1497.6	1513.6
40°	9439.2	4023.0	1409.3	1461.5	1453.4	1489.6	1345.0	1385.2	1421.3	1433.3	1441.4
42.5°	9780.5	3846.3	1365.1	1397.2	1381.2	1316.9	1236.6	1276.8	1304.9	1349.0	1357.1
45°	9933.1	3705.8	1312.9	1284.8	1284.8	1168.4	1136.2	1144.3	1208.5	1256.7	1248.7
47.5°	9684.1	3569.3	1220.6	1136.2	1164.3	1068.0	1031.8	1031.8	1100.1	1160.3	1148.3
48°	9587.8	3513.1	1224.6	1104.1	1124.2	1051.9	1015.8	1007.8	1084.0	1140.3	1140.3
50°	9110.0	3304.3	1120.2	1015.8	975.6	967.6	943.5	951.5	999.7	1051.9	1051.9
52.5°	8178.5	2854.6	947.5	871.3	799.0	847.2	859.2	843.1	867.2	915.4	911.4
55°	6825.5	2192.2	758.8	722.7	666.5	718.7	742.8	722.7	698.6	734.7	734.7
57.5°	4372.3	1180.4	606.3	614.3	558.1	610.3	630.4	582.2	538.0	566.1	562.1
60°	1971.4	706.6	497.9	485.8	449.7	509.9	542.0	485.8	425.6	445.7	465.7
62.5°	738.8	501.9	377.4	369.4	361.3	417.6	433.6	389.5	329.2	341.3	345.3
65°	542.0	441.6	301.1	273.0	289.1	329.2	321.2	277.0	236.9	236.9	244.9
67.5°	461.7	385.4	244.9	212.8	212.8	216.8	200.7	176.7	164.6	172.6	180.7
70°	361.3	305.1	192.7	164.6	148.6	132.5	116.4	112.4	100.4	112.4	108.4
72.5°	232.9	204.8	148.6	124.5	112.4	92.3	76.3	72.3	60.2	56.2	56.2
75°	124.5	124.5	116.4	100.4	88.3	72.3	60.2	48.2	32.1	24.1	24.1
77.5°	88.3	96.4	104.4	96.4	80.3	60.2	48.2	32.1	16.1	8.0	8.0
80°	84.3	96.4	104.4	92.3	80.3	60.2	44.2	24.1	12.0	4.0	4.0
82.5°	76.3	88.3	96.4	84.3	72.3	52.2	40.1	24.1	12.0	4.0	4.0
85°	16.1	20.1	24.1	24.1	28.1	36.1	28.1	20.1	8.0	4.0	4.0
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	8.0	8.0	4.0	4.0	4.0
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)