

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: P648611

Luminaire Tested: **GALN-SA8B-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648611  
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-SA8B-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 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: 23794.6 lumens  
Efficiency: N/A  
Efficacy: 73.2 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

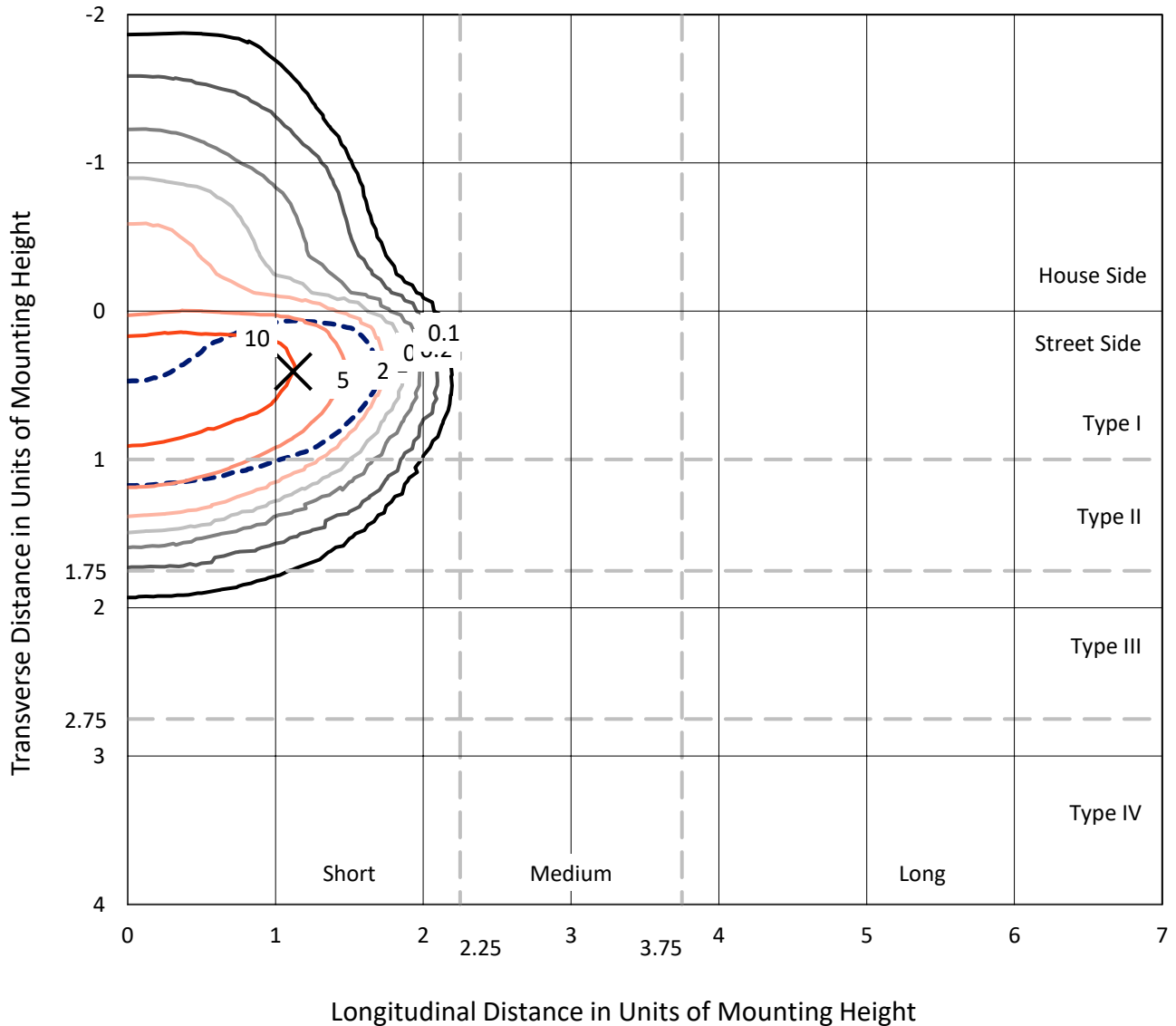
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

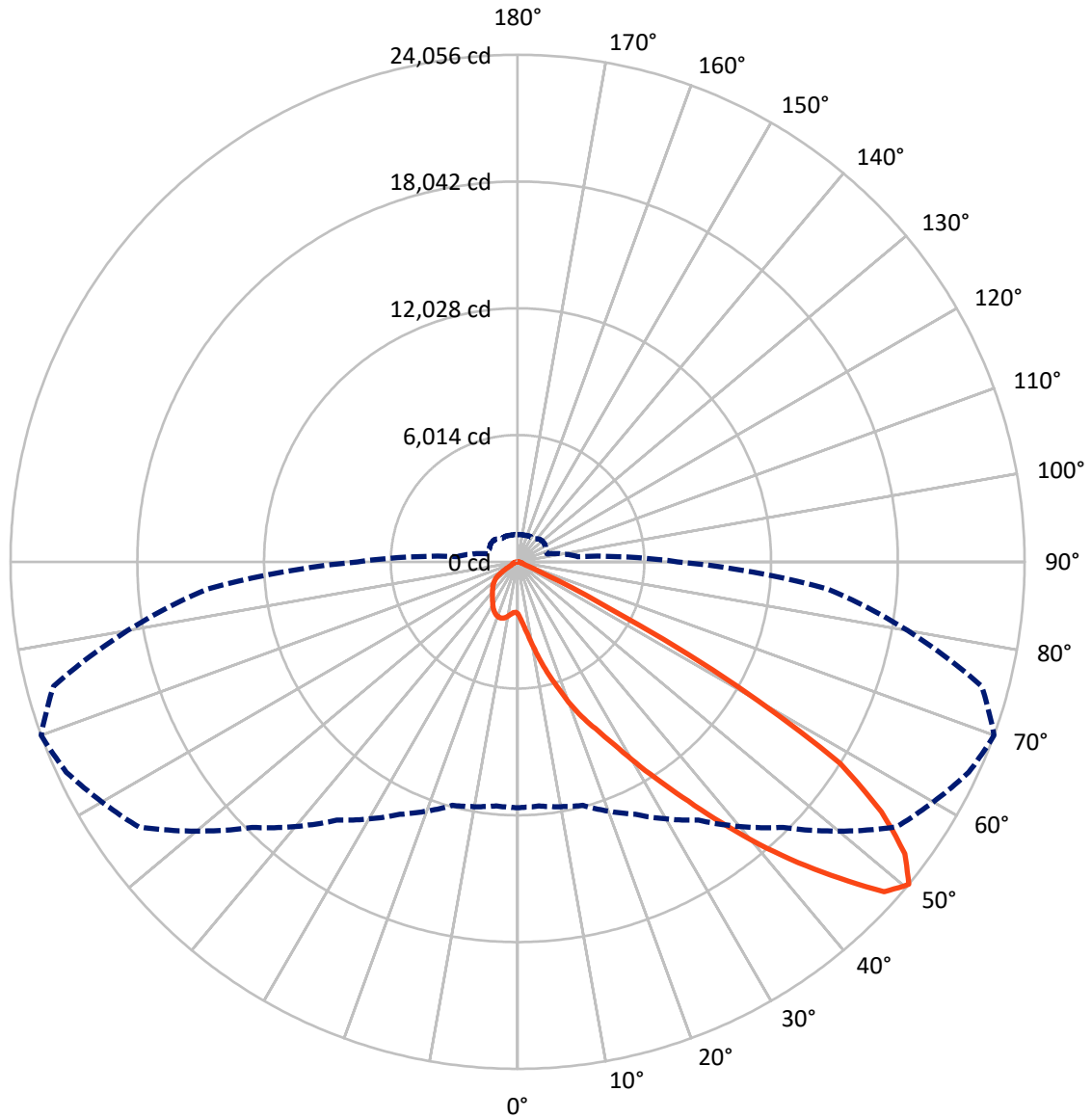
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 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
<b>House Side</b>	Lumens	3323.1	0.0	3323.1
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	20471.5	0.0	20471.5
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	23794.6	0.0	23794.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	320.5	1.3
10°-20°	1386.3	5.8
20°-30°	2908.3	12.2
30°-40°	5013.0	21.1
40°-50°	7326.4	30.8
50°-60°	5706.1	24.0
60°-70°	966.8	4.1
70°-80°	132.8	0.6
80°-90°	34.4	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°	23794.6	100.0
0°-180°	23794.6	100.0

**Coefficient of Utilization**



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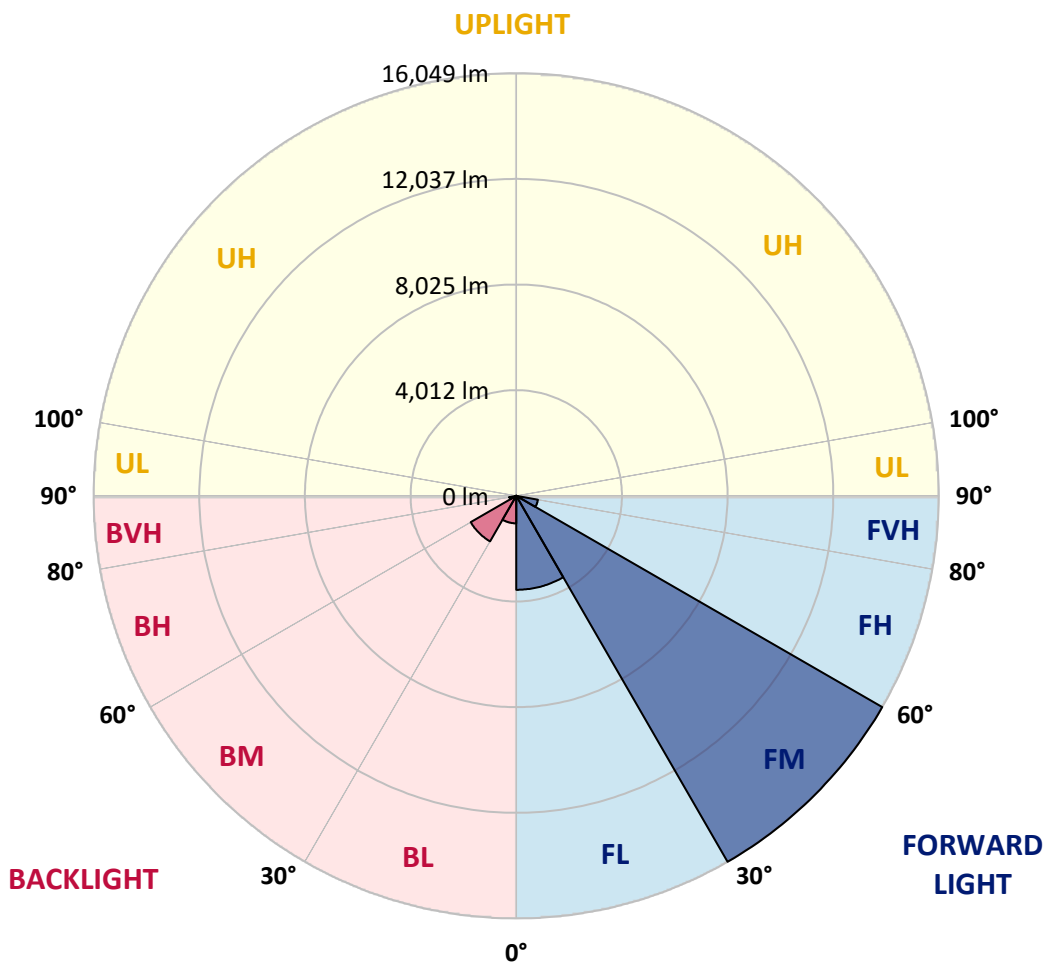
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3569.5	15.0			
FM (30°-60°)	16049.0	67.4			
FH (60°-80°)	837.1	3.5			G1/1800
FVH (80°-90°)	15.9	0.1			G1/100
BL (0°-30°)	1045.7	4.4	B3/2500		
BM (30°-60°)	1996.4	8.4	B2/2500		
BH (60°-80°)	262.5	1.1	B1/500		G1/500
BVH (80°-90°)	18.5	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°	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6
2.5°	3227.5	3204.0	3153.2	3059.3	3020.2	2926.3	2871.5	2765.9	2699.4	2625.1	2542.9
5°	4545.9	4424.7	4350.3	4244.6	3935.6	3743.9	3427.0	3157.1	3031.9	2895.0	2707.2
7.5°	5907.3	5829.1	5727.4	5500.5	5289.2	4890.1	4346.4	3751.7	3497.4	3262.8	2891.1
10°	7034.0	6814.9	6803.3	6635.0	6404.2	5926.9	5273.6	4534.2	4080.4	3736.1	3153.2
12.5°	7820.4	7620.9	7710.8	7691.3	7476.1	7037.9	6282.9	5304.9	4831.5	4295.5	3423.1
15°	8536.3	8454.1	8426.7	8403.3	8317.2	7992.5	7315.7	6243.8	5559.1	4913.6	3728.3
17.5°	9236.6	9025.3	9127.0	9146.6	9138.8	8845.4	8211.6	7135.7	6329.9	5567.0	4049.0
20°	9858.6	9878.2	9741.2	9713.8	9690.4	9678.7	9060.6	8019.9	7276.6	6251.6	4467.6
22.5°	10656.7	10519.8	10641.0	10562.8	10410.2	10316.3	9842.9	8802.3	8098.1	7077.1	4894.1
25°	11599.5	11709.1	11423.4	11392.2	11223.9	10899.2	10472.8	9678.7	8888.4	7843.9	5355.7
27.5°	12761.4	12569.7	12495.3	12323.2	12018.1	11881.2	11380.4	10582.3	9842.9	8649.7	5801.7
30°	13759.0	13708.1	13336.5	13133.1	12867.0	12863.1	12162.9	11806.9	11087.0	9913.4	6415.9
32.5°	14572.7	14349.7	14212.8	14072.0	13856.8	13915.5	13324.8	13137.0	12413.2	11087.0	7139.6
35°	15116.5	14956.2	14873.9	14658.8	14596.2	14858.3	14611.9	14533.6	13939.0	12737.9	7988.6
37.5°	15288.6	15339.5	15323.9	15054.0	15186.9	15895.1	16211.9	16008.5	15695.5	14478.8	8908.0
40°	15441.2	15476.5	15398.2	15715.0	16094.6	16900.4	18046.7	17710.3	17592.9	16243.3	10187.2
42.5°	15527.3	15499.9	15499.9	16047.6	16622.7	18242.3	19818.9	19595.9	19505.9	18121.0	11666.0
45°	15155.7	14889.6	15175.2	15918.5	17076.5	18903.5	21235.1	21544.2	21415.0	20354.9	13395.2
47.5°	13766.9	13931.1	14091.6	15085.2	16524.9	18700.1	22103.6	23156.0	23394.6	22232.7	14529.7
50°	11666.0	11630.8	11963.3	13215.2	14963.9	17823.7	21935.4	23621.5	24055.8	22796.0	14768.3
52.5°	8485.4	8743.6	9103.5	10347.7	12421.0	15554.7	19764.2	22420.5	22999.5	22103.6	14611.9
55°	4941.0	4655.5	5465.3	6517.6	8473.7	11732.6	16708.8	19873.7	20945.6	20843.9	13821.6
57.5°	1979.6	1916.9	2194.7	2957.5	4420.7	7272.7	12151.1	16329.3	18046.7	19091.3	12147.2
60°	868.5	848.9	997.6	1205.0	1807.4	3352.7	6646.7	10155.9	11947.7	13340.4	8360.2
62.5°	625.9	618.1	692.5	766.8	954.6	1459.2	2793.3	4092.1	5101.4	6161.7	3743.9
65°	504.6	524.2	575.1	614.2	704.2	809.8	985.9	1138.4	1396.6	1447.5	825.4
67.5°	410.8	426.4	473.4	516.4	532.0	438.2	453.8	399.0	399.0	356.0	285.6
70°	301.2	305.1	359.9	410.8	328.6	176.0	309.1	309.1	277.7	266.1	242.6
72.5°	223.0	226.9	269.9	254.3	129.1	109.5	226.9	250.4	226.9	215.2	195.6
75°	164.3	168.2	140.9	58.6	54.7	70.4	133.0	172.1	164.3	160.4	148.7
77.5°	31.3	23.5	19.6	27.4	39.2	58.6	86.1	105.6	109.5	117.4	109.5
80°	3.9	3.9	11.7	23.5	43.1	62.6	90.0	101.7	105.6	109.5	101.7
82.5°	0.0	3.9	11.7	23.5	43.1	58.6	78.2	90.0	97.8	101.7	97.8
85°	0.0	3.9	7.8	19.6	35.2	43.1	39.2	27.4	23.5	27.4	19.6
87.5°	0.0	0.0	3.9	3.9	7.8	7.8	7.8	7.8	7.8	7.8	7.8
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°	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6	2464.6
2.5°	2496.0	2480.3	2425.5	2366.9	2316.0	2339.4	2316.0	2296.5	2304.3	2296.5	2288.6
5°	2632.8	2562.4	2445.1	2394.3	2351.2	2347.3	2335.5	2331.6	2335.5	2335.5	2300.4
7.5°	2762.0	2648.5	2523.3	2468.6	2417.7	2421.6	2394.3	2394.3	2390.3	2370.8	2362.9
10°	2957.5	2805.0	2644.6	2546.8	2484.2	2472.5	2445.1	2417.7	2417.7	2417.7	2378.6
12.5°	3172.7	2981.0	2762.0	2648.5	2574.2	2515.5	2472.5	2464.6	2421.6	2413.8	2394.3
15°	3360.6	3118.0	2840.3	2683.7	2589.9	2511.6	2445.1	2402.1	2382.5	2370.8	2355.1
17.5°	3544.4	3235.4	2883.2	2683.7	2582.0	2492.1	2421.6	2382.5	2335.5	2343.4	2312.0
20°	3790.9	3360.6	2895.0	2632.8	2507.7	2421.6	2327.7	2308.1	2280.8	2257.3	2265.1
22.5°	4029.5	3450.5	2859.8	2570.3	2390.3	2288.6	2241.7	2218.2	2206.4	2186.9	2159.5
25°	4244.6	3548.3	2805.0	2456.8	2265.1	2190.8	2147.8	2143.9	2116.4	2116.4	2065.6
27.5°	4463.7	3583.6	2711.1	2323.8	2155.6	2112.5	2093.0	2085.2	2073.5	2046.1	2010.8
30°	4714.1	3595.2	2574.2	2186.9	2057.8	2010.8	2038.2	2057.8	2006.9	1956.1	1971.8
32.5°	4921.5	3567.9	2409.9	2057.8	1987.3	1963.9	2018.7	2038.2	1979.6	1924.8	1897.4
35°	5171.9	3501.3	2249.5	1956.1	1916.9	1963.9	2010.8	2010.8	1893.5	1827.0	1811.3
37.5°	5551.3	3427.0	2100.8	1870.0	1842.6	1940.4	2003.0	1960.0	1776.1	1693.9	1674.4
40°	5958.2	3380.1	1956.1	1783.9	1803.5	1901.3	1936.5	1803.5	1615.7	1564.8	1549.2
42.5°	6548.9	3286.2	1827.0	1709.6	1768.3	1846.5	1846.5	1607.9	1537.5	1510.1	1506.2
45°	7284.4	3219.7	1713.5	1647.0	1717.4	1737.0	1674.4	1506.2	1455.3	1447.5	1451.4
47.5°	7644.4	3090.6	1596.1	1572.7	1623.6	1627.5	1463.1	1424.0	1381.0	1369.2	1361.4
50°	7589.5	2859.8	1443.6	1474.9	1545.3	1506.2	1334.1	1341.8	1302.8	1298.8	1279.3
52.5°	7206.2	2496.0	1291.0	1365.3	1443.6	1330.2	1228.4	1220.6	1220.6	1169.7	1150.1
55°	6388.5	2010.8	1107.2	1201.0	1294.9	1118.9	1091.5	1083.7	1064.1	1017.2	1005.5
57.5°	5058.4	1474.9	833.3	935.0	1099.3	950.6	946.7	911.6	860.7	825.4	825.4
60°	3008.4	848.9	524.2	571.2	727.6	770.7	856.8	841.1	755.0	700.2	684.7
62.5°	1373.1	438.2	332.5	340.4	391.2	500.7	672.9	778.5	657.3	563.4	555.5
65°	461.7	324.7	273.8	262.1	269.9	301.2	402.9	551.6	524.2	434.3	418.6
67.5°	281.6	289.5	258.2	238.7	238.7	234.7	230.8	250.4	309.1	301.2	305.1
70°	242.6	266.1	238.7	215.2	207.3	195.6	164.3	136.9	117.4	136.9	144.8
72.5°	195.6	211.3	203.4	183.8	164.3	148.7	117.4	90.0	66.5	58.6	58.6
75°	144.8	156.5	164.3	140.9	125.2	105.6	86.1	58.6	35.2	23.5	23.5
77.5°	105.6	117.4	121.3	109.5	93.9	74.3	54.7	39.2	19.6	7.8	7.8
80°	90.0	105.6	117.4	109.5	97.8	70.4	50.9	27.4	15.7	3.9	3.9
82.5°	86.1	105.6	117.4	105.6	93.9	66.5	50.9	31.3	11.7	3.9	3.9
85°	19.6	27.4	35.2	43.1	50.9	50.9	39.2	23.5	11.7	3.9	3.9
87.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	3.9	3.9	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)