

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: P532855

Luminaire Tested: **GALN-SA8B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532855  
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-SA8B-730-U-AFL-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 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: 31216 lumens  
Efficiency: N/A  
Efficacy: 96.0 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

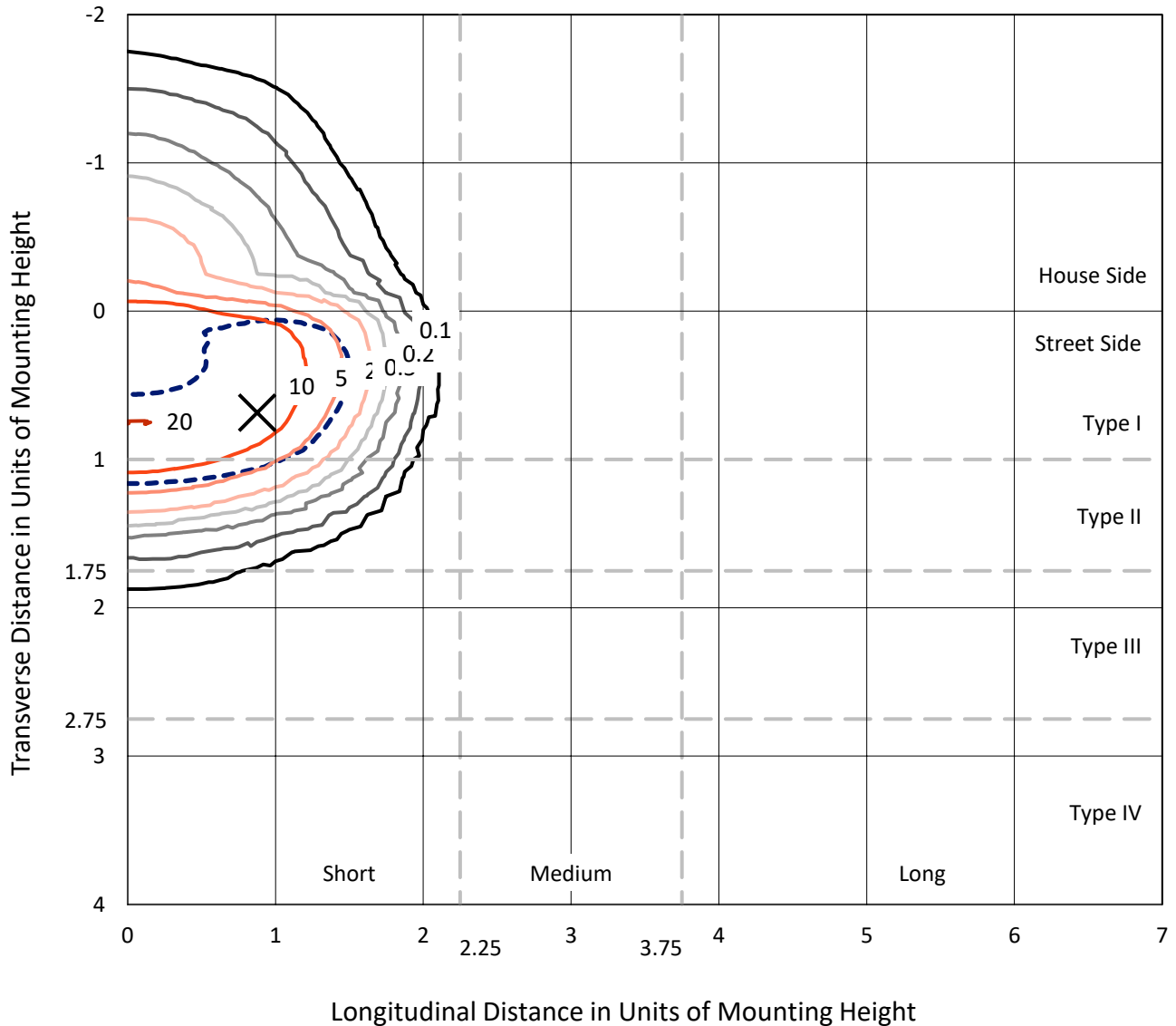
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

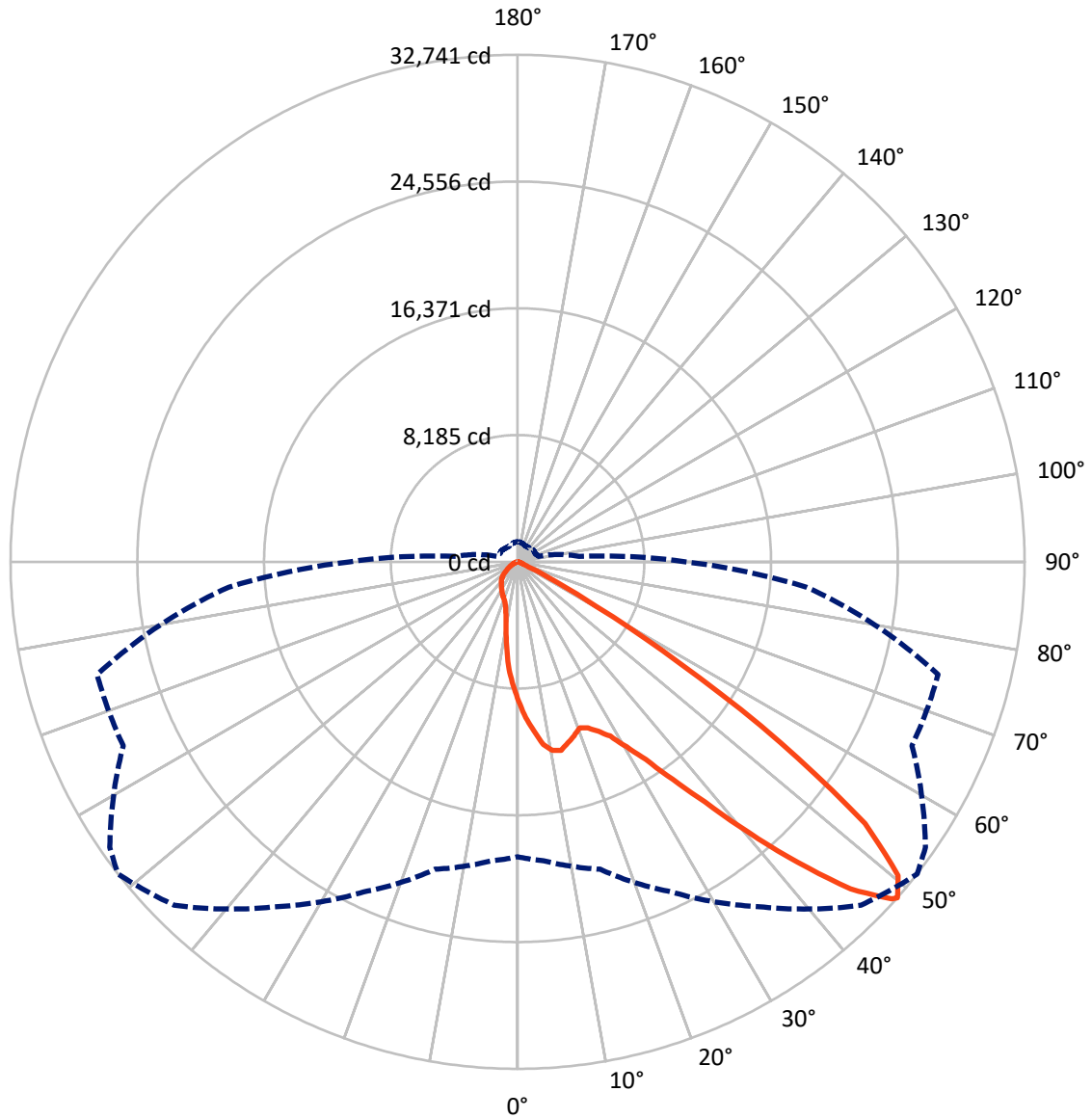
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 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	3800.8	0.0	3800.8
	% Fixture	12.2	0.0	12.2
<b>Street Side</b>	Lumens	27415.2	0.0	27415.2
	% Fixture	87.8	0.0	87.8
<b>Total</b>	Lumens	31216.0	0.0	31216.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	825.1	2.6
10°-20°	2156.3	6.9
20°-30°	3681.7	11.8
30°-40°	6779.8	21.7
40°-50°	10529.0	33.7
50°-60°	6336.7	20.3
60°-70°	732.9	2.3
70°-80°	141.9	0.5
80°-90°	32.8	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°	31216.0	100.0
0°-180°	31216.0	100.0



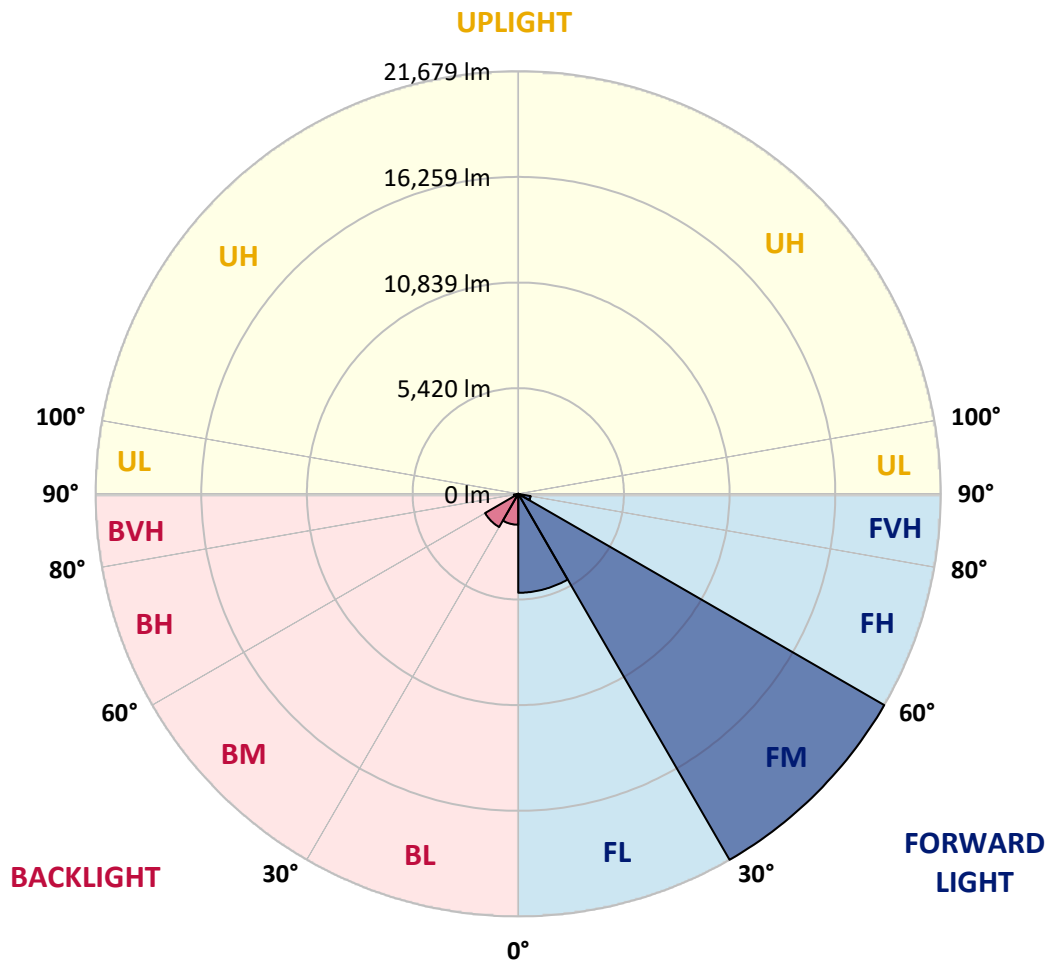
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5075.3	16.3			
FM (30°-60°)	21678.9	69.4			
FH (60°-80°)	645.4	2.1			G0/660
FVH (80°-90°)	15.6	0.1			G1/100
BL (0°-30°)	1587.7	5.1	B3/2500		
BM (30°-60°)	1966.5	6.3	B2/2500		
BH (60°-80°)	229.4	0.7	B1/500		G1/500
BVH (80°-90°)	17.2	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°	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7
2.5°	10925.9	10675.6	10698.4	10534.5	10439.0	10284.3	10074.9	10034.0	9806.5	9497.0	9183.0
5°	11908.8	11849.7	11927.0	11690.4	11699.5	11444.7	10953.2	10962.3	10439.0	9933.9	9447.0
7.5°	11972.5	11836.0	11913.4	12122.7	12245.6	12200.1	11922.5	11681.3	11185.3	10443.5	9733.7
10°	10721.1	10980.5	11062.4	11408.3	11899.7	12418.5	12386.6	12400.3	11986.2	11016.9	9979.4
12.5°	9970.3	9797.4	10074.9	10284.3	11026.0	12031.7	12491.3	12591.4	12623.3	11572.1	10225.1
15°	9629.0	9629.0	9674.5	9733.7	10270.6	11198.9	12136.3	12427.6	13114.7	12300.2	10611.9
17.5°	9842.9	9833.8	9897.5	9774.6	9974.8	10689.3	11808.7	12140.9	13665.3	13014.6	10916.8
20°	10493.6	10525.4	10484.5	10129.5	10143.2	10680.2	11444.7	11968.0	14038.5	13633.5	11321.8
22.5°	11399.2	11417.4	11185.3	10798.5	10684.7	10948.7	11654.0	12054.4	14338.8	14375.2	11444.7
25°	12445.8	12373.0	12327.5	11781.4	11435.6	11663.1	12127.2	12359.3	14525.4	15012.3	11795.1
27.5°	13897.4	13751.8	13474.2	12987.3	12732.5	12409.4	12741.6	13123.8	15057.8	15904.2	12177.3
30°	16040.7	15913.3	15371.8	14743.8	14074.9	13756.3	13861.0	14070.3	16018.0	16937.2	12682.4
32.5°	19267.1	18998.6	18215.9	17019.1	16109.0	15230.7	15203.4	15426.4	16878.0	18366.1	13283.1
35°	22821.1	22739.2	21587.9	20354.7	18593.6	17237.5	17260.3	17378.6	18525.3	20240.9	14070.3
37.5°	25182.8	25633.3	24900.7	23576.5	22097.5	20159.0	19667.5	19708.5	20787.0	22461.6	15490.1
40°	27007.6	26625.3	26711.8	26402.4	25392.1	24072.5	22984.9	22771.0	23403.5	24918.9	16900.8
42.5°	26211.2	26229.4	26761.9	27494.5	27744.8	27649.2	26538.9	26133.9	25642.4	26930.2	18243.2
45°	23963.3	24432.0	25123.7	27062.2	28764.1	30361.3	30142.9	29469.4	27189.6	28522.9	19016.8
47.5°	20377.4	20359.2	21492.3	24013.3	27794.8	31535.4	32527.4	32054.2	28286.3	28345.4	18857.5
48°	19053.2	19380.8	20550.3	23517.3	27180.5	31362.5	32741.3	32145.2	28099.7	28108.8	18721.0
50°	14084.0	14024.8	15481.0	19121.5	24277.2	29469.4	31840.3	32304.4	28095.2	26912.0	17765.4
52.5°	7440.2	7695.0	8755.3	12022.6	17164.7	24118.0	28086.1	28809.6	27103.1	24955.3	16391.1
55°	3162.6	2857.8	3672.3	5428.8	9656.3	16113.5	20604.9	22215.8	22916.6	22083.9	14338.8
57.5°	1128.5	1233.2	1419.8	2043.2	4059.1	8819.0	12286.5	13537.9	15876.9	16204.5	9770.1
60°	723.5	737.2	796.3	937.4	1524.4	3399.3	5829.3	6825.8	7886.1	8141.0	4559.7
62.5°	559.7	564.3	591.6	614.3	723.5	1319.7	2188.8	2593.8	2693.9	2316.2	1196.8
65°	468.7	473.3	482.4	482.4	514.2	618.9	764.5	841.9	819.1	810.0	678.0
67.5°	359.5	368.6	386.8	386.8	405.0	377.7	423.2	450.5	509.7	618.9	577.9
70°	282.1	286.7	300.3	309.4	309.4	273.0	304.9	332.2	373.1	459.6	455.1
72.5°	218.4	227.5	236.6	236.6	223.0	186.6	218.4	241.2	268.5	318.5	309.4
75°	168.4	168.4	172.9	141.1	109.2	95.6	132.0	159.3	200.2	209.3	172.9
77.5°	45.5	50.1	45.5	41.0	45.5	68.3	86.5	100.1	127.4	127.4	113.8
80°	0.0	4.6	13.7	27.3	45.5	63.7	77.4	86.5	100.1	109.2	104.7
82.5°	0.0	4.6	13.7	27.3	41.0	50.1	68.3	72.8	81.9	95.6	95.6
85°	0.0	4.6	9.1	18.2	27.3	31.9	31.9	27.3	27.3	22.8	18.2
87.5°	0.0	0.0	4.6	9.1	9.1	13.7	13.7	13.7	13.7	13.7	13.7
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°	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7	9014.7
2.5°	9060.2	8919.1	8705.2	8368.5	8045.4	7836.1	7635.8	7412.9	7290.0	7280.9	7212.6
5°	9169.4	8850.8	8341.2	7763.3	7144.4	6612.0	6075.0	5724.6	5410.6	5237.7	5205.8
7.5°	9228.5	8814.4	7990.8	7021.5	5965.8	5096.6	4496.0	4054.6	3881.6	3754.2	3749.7
10°	9351.4	8750.7	7467.5	6038.6	4732.6	3854.3	3440.2	3240.0	3144.4	3108.0	3053.4
12.5°	9442.4	8632.4	6930.5	5028.4	3740.6	3194.5	3012.5	2967.0	2971.5	2989.7	2967.0
15°	9569.8	8527.8	6207.0	4127.4	3139.9	2876.0	2876.0	2885.1	2948.8	2957.9	2953.3
17.5°	9560.7	8323.0	5460.7	3399.3	2775.8	2739.4	2753.1	2839.6	2880.5	2894.2	2862.3
20°	9669.9	8131.9	4691.6	2903.3	2571.1	2625.7	2716.7	2739.4	2789.5	2798.6	2762.2
22.5°	9638.1	7654.0	3977.2	2511.9	2416.3	2521.0	2612.0	2639.3	2625.7	2598.4	2593.8
25°	9578.9	7244.5	3321.9	2252.5	2302.6	2416.3	2502.8	2452.8	2425.4	2430.0	2434.6
27.5°	9474.3	6725.7	2780.4	2070.5	2147.9	2316.2	2311.7	2293.5	2320.8	2298.0	2320.8
30°	9456.1	6207.0	2334.4	1906.7	2034.1	2157.0	2166.1	2197.9	2229.8	2188.8	2229.8
32.5°	9483.4	5638.1	2015.9	1806.6	1965.8	1970.4	2070.5	2102.4	2079.6	1988.6	1997.7
35°	9692.7	5201.3	1783.8	1752.0	1856.6	1861.2	1956.7	1915.8	1815.7	1761.1	1792.9
37.5°	10134.1	4837.2	1674.6	1701.9	1711.0	1770.2	1774.7	1692.8	1701.9	1697.4	1715.6
40°	10698.4	4559.7	1597.2	1656.4	1647.3	1688.3	1524.4	1569.9	1610.9	1624.6	1633.7
42.5°	11085.2	4359.4	1547.2	1583.6	1565.4	1492.6	1401.6	1447.1	1478.9	1529.0	1538.1
45°	11258.1	4200.2	1488.0	1456.2	1456.2	1324.2	1287.8	1296.9	1369.7	1424.3	1415.2
47.5°	10976.0	4045.4	1383.4	1287.8	1319.7	1210.4	1169.5	1169.5	1246.9	1315.1	1301.5
48°	10866.7	3981.7	1387.9	1251.4	1274.2	1192.2	1151.3	1142.2	1228.7	1292.4	1292.4
50°	10325.2	3745.1	1269.6	1151.3	1105.8	1096.7	1069.4	1078.5	1133.1	1192.2	1192.2
52.5°	9269.5	3235.4	1073.9	987.5	905.6	960.2	973.8	955.6	982.9	1037.5	1033.0
55°	7736.0	2484.6	860.1	819.1	755.4	814.6	841.9	819.1	791.8	832.8	832.8
57.5°	4955.6	1337.9	687.1	696.2	632.5	691.7	714.4	659.8	609.8	641.6	637.1
60°	2234.3	800.9	564.3	550.6	509.7	577.9	614.3	550.6	482.4	505.1	527.9
62.5°	837.3	568.8	427.8	418.7	409.6	473.3	491.5	441.4	373.1	386.8	391.3
65°	614.3	500.6	341.3	309.4	327.6	373.1	364.0	314.0	268.5	268.5	277.6
67.5°	523.3	436.9	277.6	241.2	241.2	245.7	227.5	200.2	186.6	195.7	204.8
70°	409.6	345.8	218.4	186.6	168.4	150.2	132.0	127.4	113.8	127.4	122.9
72.5°	263.9	232.1	168.4	141.1	127.4	104.7	86.5	81.9	68.3	63.7	63.7
75°	141.1	141.1	132.0	113.8	100.1	81.9	68.3	54.6	36.4	27.3	27.3
77.5°	100.1	109.2	118.3	109.2	91.0	68.3	54.6	36.4	18.2	9.1	9.1
80°	95.6	109.2	118.3	104.7	91.0	68.3	50.1	27.3	13.7	4.6	4.6
82.5°	86.5	100.1	109.2	95.6	81.9	59.2	45.5	27.3	13.7	4.6	4.6
85°	18.2	22.8	27.3	27.3	31.9	41.0	31.9	22.8	9.1	4.6	4.6
87.5°	13.7	13.7	13.7	13.7	13.7	13.7	9.1	9.1	4.6	4.6	4.6
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)