

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: P453486

Luminaire Tested: **GALN-SA4C-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20279 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): 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

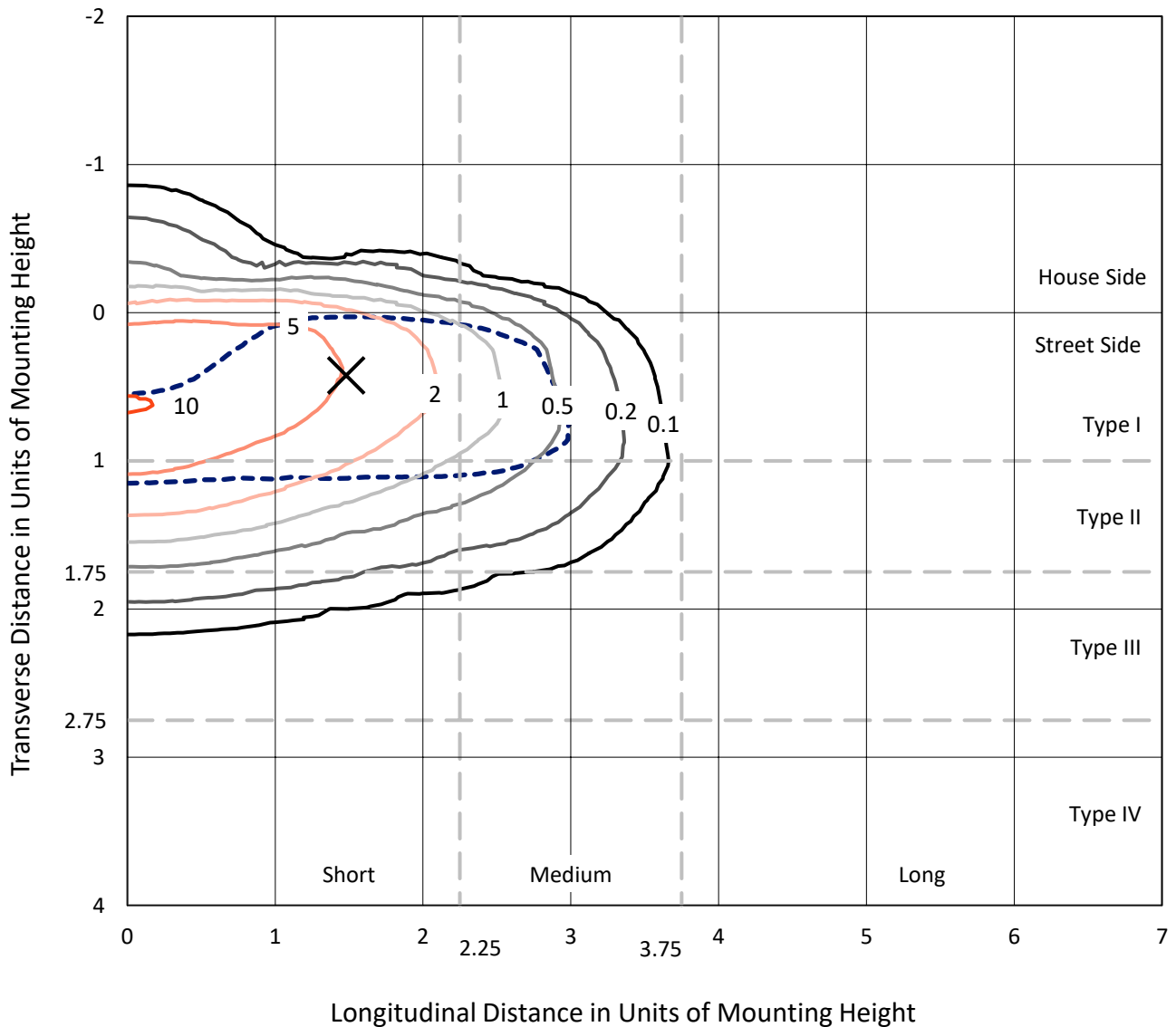




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Iso-Footcandle Lines of Horizontal Illumination

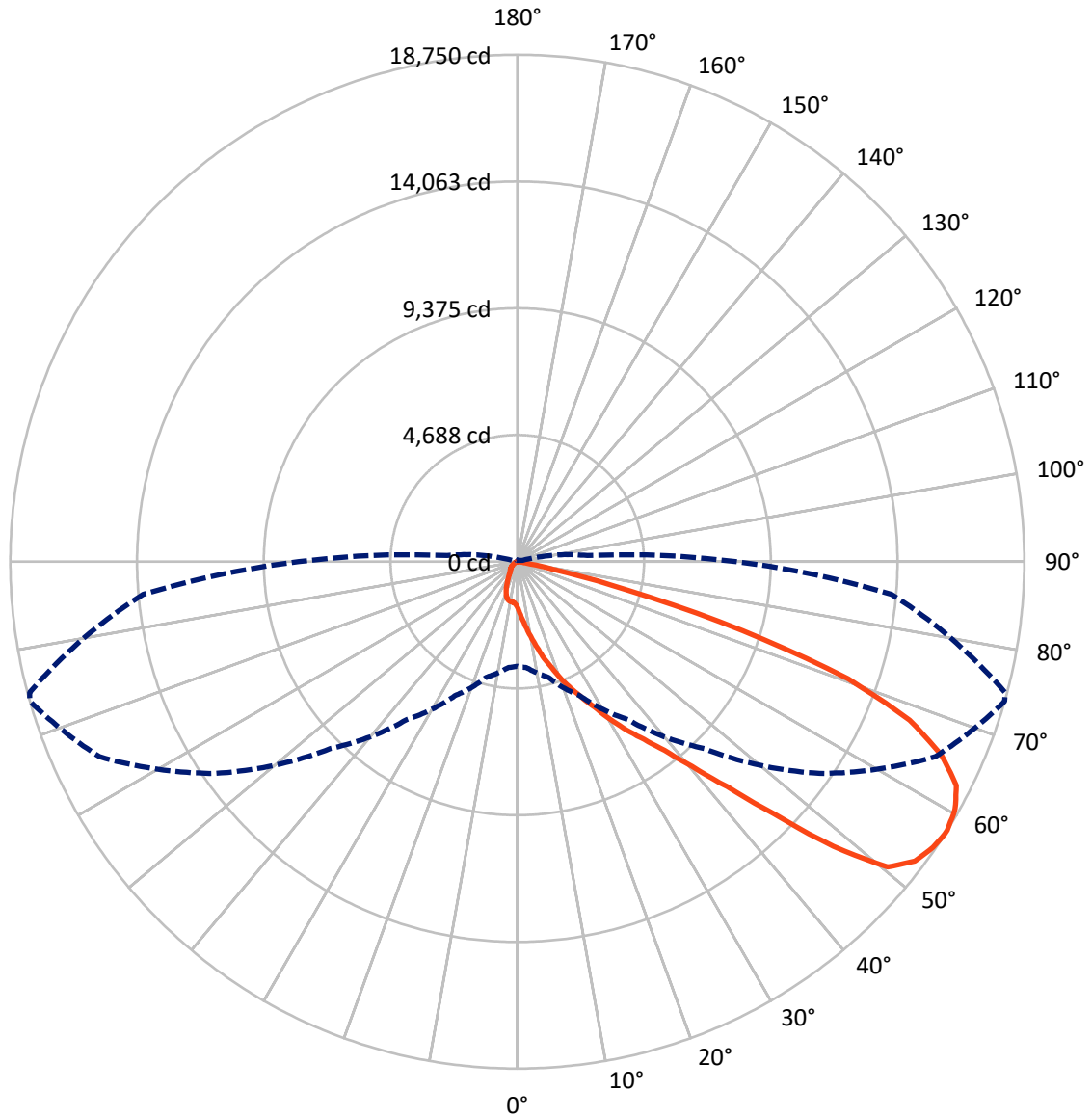
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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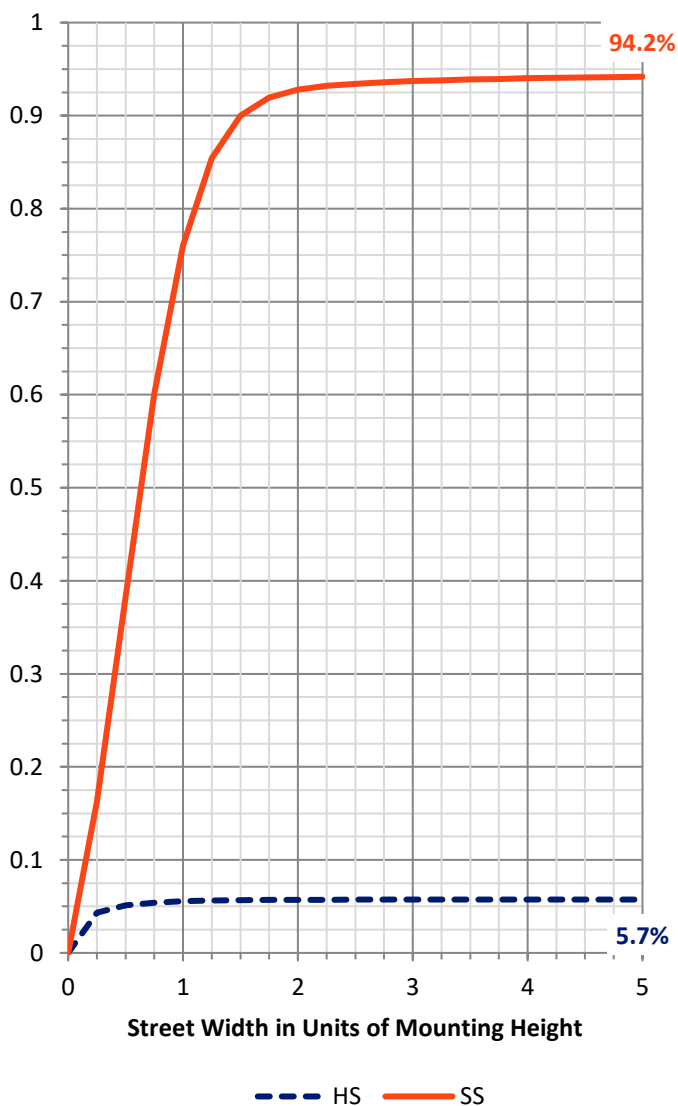
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1169.6	0.0	1169.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	19109.4	0.0	19109.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	20279.0	0.0	20279.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	1.0
10°-20°	808.0	4.0
20°-30°	1728.9	8.5
30°-40°	3177.7	15.7
40°-50°	4871.5	24.0
50°-60°	5153.4	25.4
60°-70°	3365.3	16.6
70°-80°	919.5	4.5
80°-90°	49.5	0.2
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°	20279.0	100.0
0°-180°	20279.0	100.0

Coefficient of Utilization



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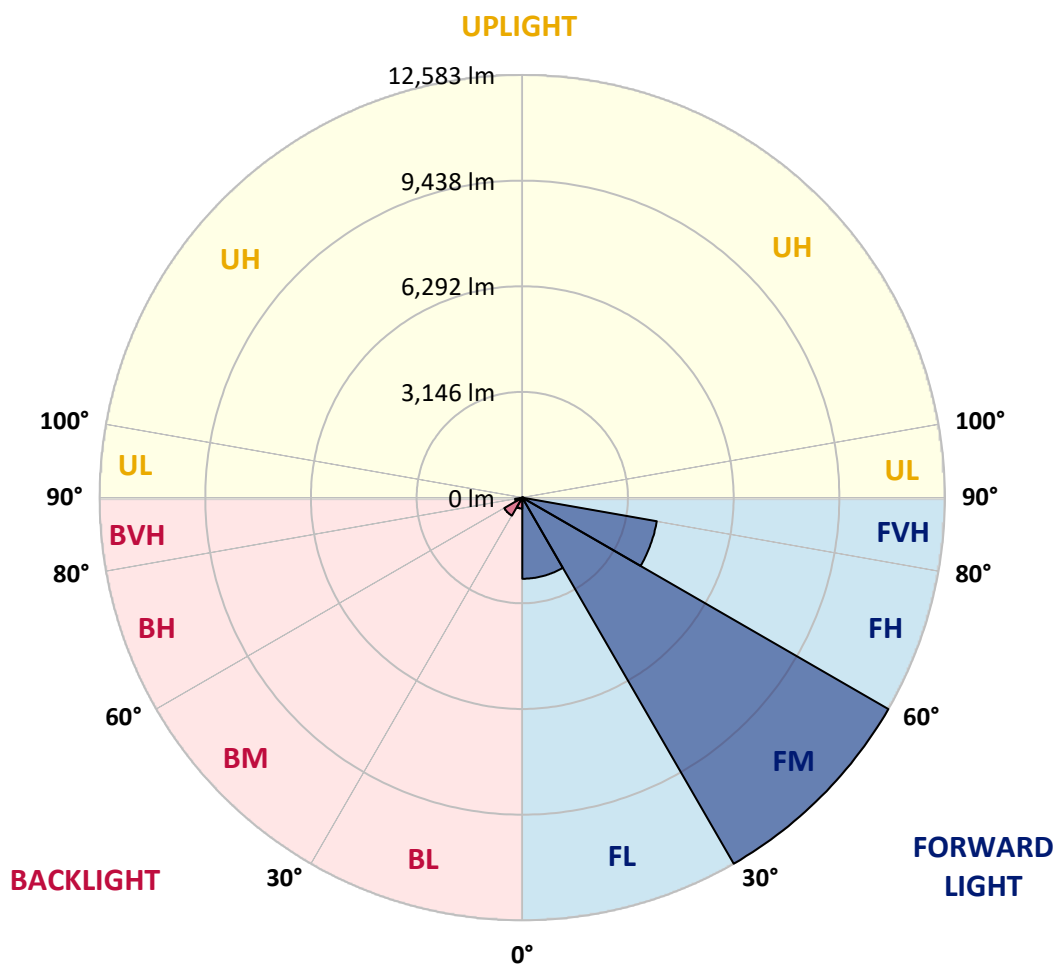
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2415.2	11.9			
FM (30°-60°)	12583.5	62.1			
FH (60°-80°)	4065.3	20.0			G2/5000
FVH (80°-90°)	45.4	0.2			G1/100
BL (0°-30°)	326.7	1.6	B1/500		
BM (30°-60°)	619.2	3.1	B1/1000		
BH (60°-80°)	219.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3
2.5°	2485.2	2462.8	2418.0	2402.6	2336.8	2234.6	2145.0	2024.6	1929.4	1919.6	1804.7
5°	3328.1	3277.7	3256.7	3155.9	2997.6	2849.2	2594.4	2401.2	2178.6	2161.8	1930.8
7.5°	4140.1	4070.1	4049.1	3953.9	3769.1	3535.3	3204.9	2853.4	2500.6	2468.4	2100.2
10°	4728.2	4738.0	4700.2	4637.2	4487.4	4249.3	3841.9	3361.7	2859.0	2818.4	2290.6
12.5°	5149.6	5148.2	5155.2	5153.8	5074.0	4893.4	4465.0	3911.9	3253.9	3174.1	2509.0
15°	5424.0	5428.2	5449.2	5522.1	5530.5	5418.4	5061.4	4438.4	3711.7	3612.3	2745.6
17.5°	5701.3	5730.7	5764.3	5832.9	5894.5	5849.7	5597.7	4987.2	4126.1	4051.9	2999.0
20°	6159.1	6199.7	6180.1	6222.1	6254.3	6258.5	6063.9	5494.1	4628.8	4504.2	3288.9
22.5°	6891.4	6890.0	6839.6	6764.0	6701.0	6698.2	6521.7	6014.9	5085.2	4964.8	3580.1
25°	7816.8	7821.0	7723.0	7507.4	7350.6	7158.8	6955.8	6471.3	5573.9	5425.4	3886.7
27.5°	8878.1	8851.5	8703.1	8406.3	8095.5	7767.8	7475.2	7002.0	6091.9	5968.7	4238.1
30°	9831.6	9821.8	9648.2	9285.6	8876.7	8547.7	8123.5	7667.0	6762.6	6611.3	4631.6
32.5°	10719.3	10733.3	10492.5	10117.2	9722.4	9343.0	8894.9	8302.7	7420.6	7206.4	5060.0
35°	11412.3	11426.3	11177.1	10864.9	10458.9	10143.8	9716.8	8980.3	8070.3	7889.6	5552.9
37.5°	11782.0	11800.2	11656.0	11420.7	11167.3	11009.1	10611.5	9852.6	8859.9	8750.7	6135.3
40°	11852.0	11873.0	11810.0	11747.0	11733.0	11846.4	11730.2	10880.3	9954.8	9784.0	7003.4
42.5°	11642.0	11670.0	11698.0	11838.0	12123.6	12539.4	12944.1	12274.8	11364.7	11135.1	8064.7
45°	11090.3	11087.5	11198.1	11560.8	12200.6	13088.3	14212.6	14020.8	13285.7	13012.7	9564.2
47.5°	10146.6	10132.6	10372.1	10888.7	11885.6	13189.1	15247.3	16140.5	15737.3	15485.3	11175.7
50°	8708.7	8777.3	9154.0	9875.0	11102.9	12883.9	15566.5	17530.8	17749.3	17481.8	12477.8
52.5°	7024.4	7021.6	7612.4	8591.1	9943.6	12211.8	15343.9	17782.9	18403.1	18198.7	13119.1
55°	5198.6	5235.0	5849.7	6836.8	8438.5	10985.3	14617.2	17523.8	18652.3	18508.1	13541.9
57°	3867.1	3931.5	4424.4	5468.9	7128.0	9771.4	13649.7	17060.4	18750.3	18671.9	13893.3
57.5°	3609.5	3612.3	4092.5	5041.8	6744.4	9305.2	13372.5	16867.2	18747.5	18704.1	13950.7
60°	2222.0	2292.0	2623.8	3407.9	4936.8	7262.4	11514.5	15756.9	18601.9	18664.9	14195.8
62.5°	1330.1	1359.5	1575.1	2054.0	3182.5	5300.8	9422.8	14335.8	18222.5	18414.3	14179.0
65°	855.5	862.5	960.5	1243.3	1989.6	3582.9	7261.0	12458.2	17241.0	17593.8	13624.5
67.5°	660.9	672.1	711.3	816.3	1153.7	2231.8	5135.6	10454.7	15653.3	16108.3	12280.4
70°	586.6	592.2	606.2	639.9	763.1	1260.1	3195.1	8166.9	12980.5	13109.3	9610.4
72.5°	478.8	494.2	537.6	548.8	604.8	786.9	1778.1	5481.5	8721.3	8753.5	5376.4
75°	371.0	373.8	438.2	470.4	509.6	541.8	793.9	2763.8	4189.1	3965.1	2072.2
77.5°	277.2	289.8	319.2	359.8	415.8	387.8	355.6	1041.7	1300.7	1276.9	602.0
80°	177.8	184.8	222.6	270.2	323.4	253.4	200.2	305.2	285.6	294.0	144.2
82.5°	89.6	91.0	142.8	219.8	205.8	127.4	126.0	124.6	106.4	105.0	67.2
85°	9.8	21.0	92.4	126.0	92.4	42.0	58.8	57.4	56.0	57.4	39.2
87.5°	1.4	1.4	15.4	18.2	12.6	14.0	16.8	18.2	22.4	21.0	16.8
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°	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3	1698.3
2.5°	1748.7	1692.7	1589.1	1489.7	1415.5	1367.9	1306.3	1283.9	1251.7	1247.5	1232.1
5°	1824.4	1717.9	1537.3	1394.5	1279.7	1192.9	1117.3	1054.3	1003.9	992.7	998.3
7.5°	1932.2	1773.9	1521.9	1327.3	1167.7	1019.3	898.9	824.7	771.5	751.9	754.7
10°	2054.0	1848.2	1519.1	1255.9	1012.3	830.3	698.7	632.9	602.0	590.8	578.2
12.5°	2198.2	1933.6	1512.1	1145.3	841.5	662.3	568.4	529.2	499.8	491.4	491.4
15°	2360.6	2024.6	1478.5	1008.1	683.3	547.4	484.4	453.6	443.8	435.4	435.4
17.5°	2530.0	2114.2	1408.5	838.7	567.0	469.0	429.8	411.6	397.6	387.8	387.8
20°	2723.2	2202.4	1296.5	688.9	478.8	418.6	387.8	366.8	355.6	347.2	344.4
22.5°	2906.6	2273.8	1153.7	565.6	417.2	376.6	348.6	326.2	315.0	310.8	310.8
25°	3097.1	2317.2	981.5	467.6	380.8	341.6	310.8	292.6	282.8	280.0	278.6
27.5°	3281.9	2342.4	830.3	408.8	347.2	309.4	280.0	266.0	256.2	253.4	254.8
30°	3505.9	2346.6	683.3	366.8	317.8	278.6	252.0	239.4	233.8	231.0	229.6
32.5°	3732.7	2341.0	574.0	341.6	289.8	252.0	229.6	219.8	215.6	211.4	211.4
35°	3987.5	2311.6	488.6	316.4	263.2	229.6	210.0	201.6	196.0	191.8	190.4
37.5°	4304.0	2296.2	439.6	288.4	239.4	208.6	190.4	182.0	177.8	172.2	170.8
40°	4802.4	2364.8	424.2	263.2	215.6	189.0	172.2	162.4	156.8	151.2	149.8
42.5°	5424.0	2485.2	399.0	238.0	194.6	170.8	154.0	142.8	133.0	126.0	123.2
45°	6229.1	2643.4	359.8	211.4	176.4	151.2	135.8	121.8	109.2	103.6	102.2
47.5°	7073.4	2796.0	324.8	190.4	156.8	134.4	117.6	102.2	91.0	86.8	85.4
50°	7591.4	2826.8	302.4	166.6	137.2	116.2	99.4	85.4	78.4	74.2	74.2
52.5°	7828.0	2777.8	271.6	145.6	119.0	102.2	85.4	74.2	70.0	67.2	65.8
55°	7993.3	2702.2	231.0	126.0	102.2	86.8	75.6	67.2	61.6	58.8	57.4
57°	8089.9	2600.0	200.2	110.6	88.2	75.6	67.2	60.2	54.6	49.0	49.0
57.5°	8094.1	2560.8	191.8	109.2	84.0	72.8	65.8	58.8	51.8	46.2	44.8
60°	7969.5	2292.0	154.0	92.4	67.2	61.6	54.6	46.2	36.4	30.8	29.4
62.5°	7569.0	1950.4	127.4	78.4	54.6	47.6	39.2	35.0	25.2	18.2	18.2
65°	6962.8	1582.1	109.2	63.0	44.8	35.0	26.6	25.2	15.4	8.4	7.0
67.5°	6086.3	1232.1	92.4	51.8	37.8	25.2	18.2	16.8	8.4	2.8	0.0
70°	4637.2	840.1	77.0	42.0	28.0	18.2	12.6	9.8	5.6	1.4	0.0
72.5°	2672.8	462.0	64.4	32.2	21.0	14.0	9.8	5.6	5.6	0.0	0.0
75°	954.9	198.8	49.0	23.8	16.8	11.2	7.0	2.8	4.2	1.4	0.0
77.5°	303.8	106.4	32.2	18.2	14.0	8.4	5.6	2.8	2.8	1.4	0.0
80°	89.6	56.0	19.6	15.4	9.8	7.0	4.2	1.4	2.8	1.4	0.0
82.5°	49.0	28.0	15.4	11.2	9.8	5.6	4.2	1.4	1.4	1.4	0.0
85°	25.2	16.8	12.6	11.2	9.8	5.6	4.2	1.4	0.0	1.4	1.4
87.5°	14.0	12.6	12.6	11.2	9.8	7.0	4.2	1.4	0.0	0.0	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)