

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: P453718

Luminaire Tested: **GALN-SA4D-730-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453718
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-SA4D-730-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA 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: 22314 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

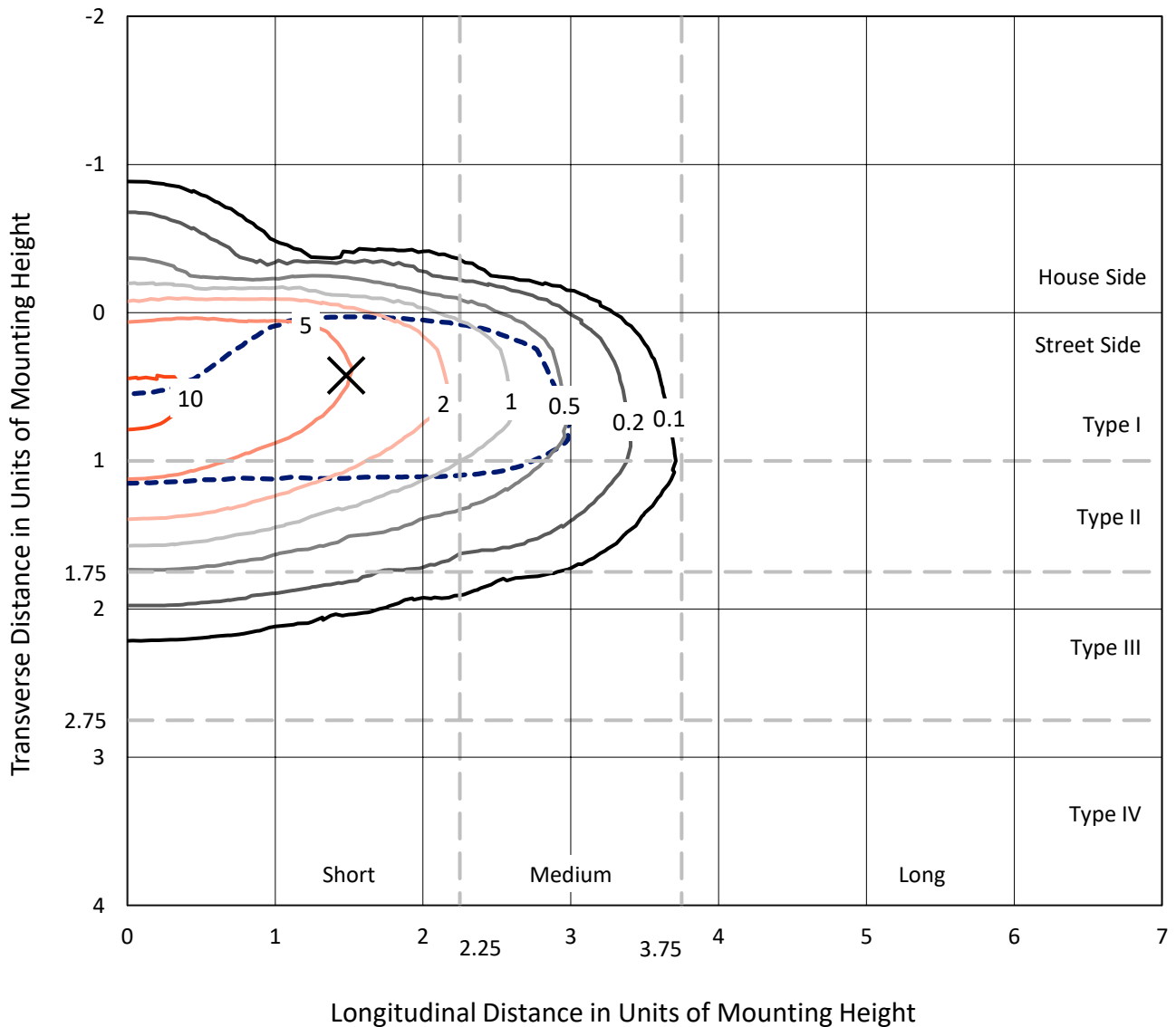
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

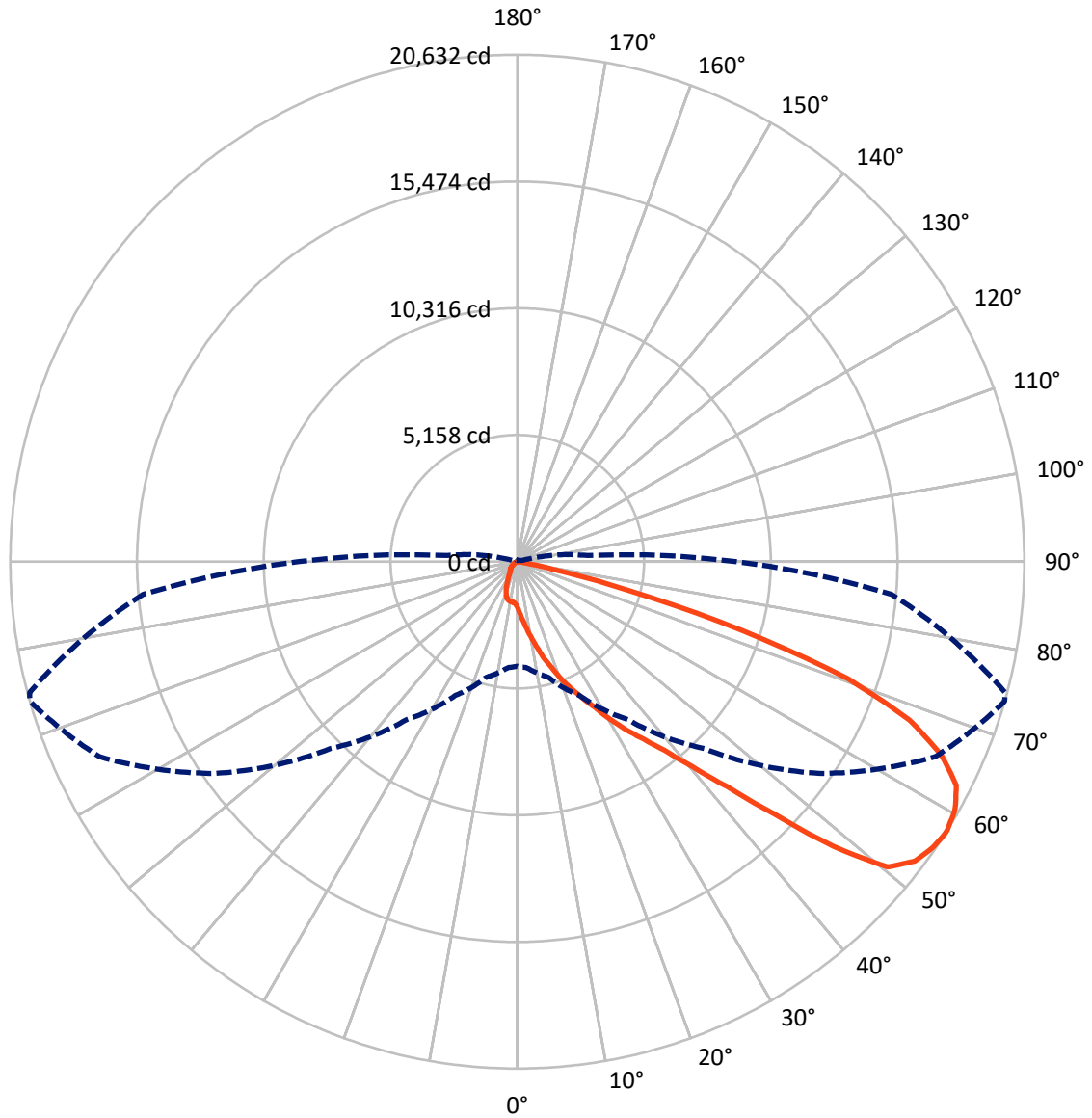
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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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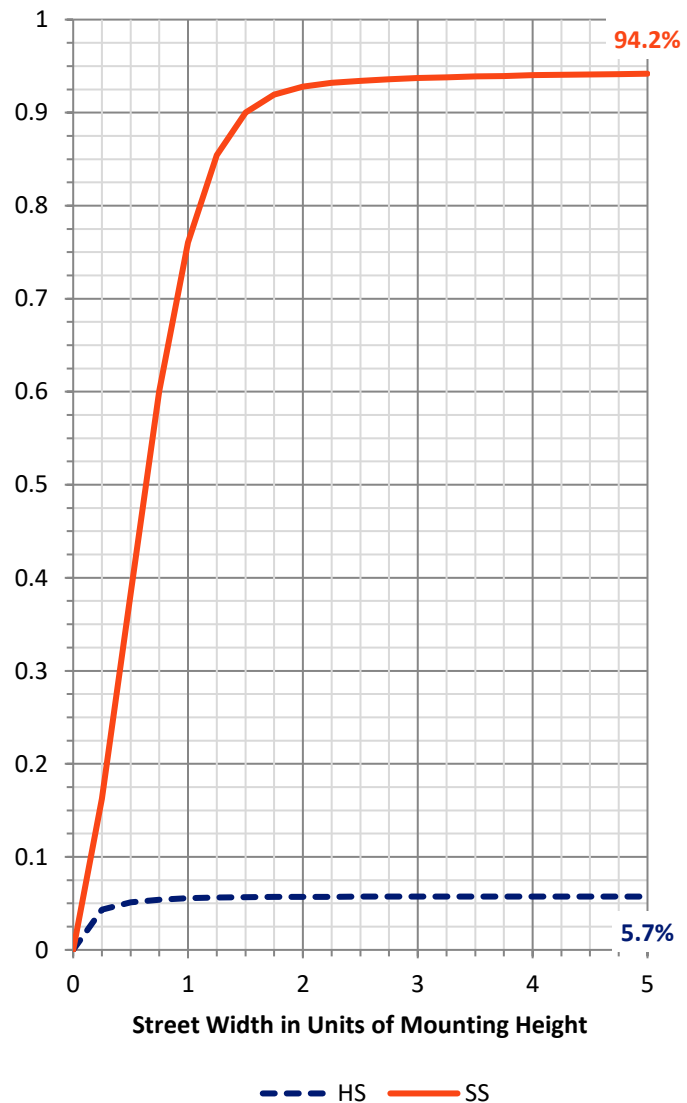
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1287.0	0.0	1287.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	21027.0	0.0	21027.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	22314.0	0.0	22314.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.0
10°-20°	889.1	4.0
20°-30°	1902.4	8.5
30°-40°	3496.6	15.7
40°-50°	5360.4	24.0
50°-60°	5670.6	25.4
60°-70°	3703.0	16.6
70°-80°	1011.8	4.5
80°-90°	54.5	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°	22314.0	100.0
0°-180°	22314.0	100.0

Coefficient of Utilization



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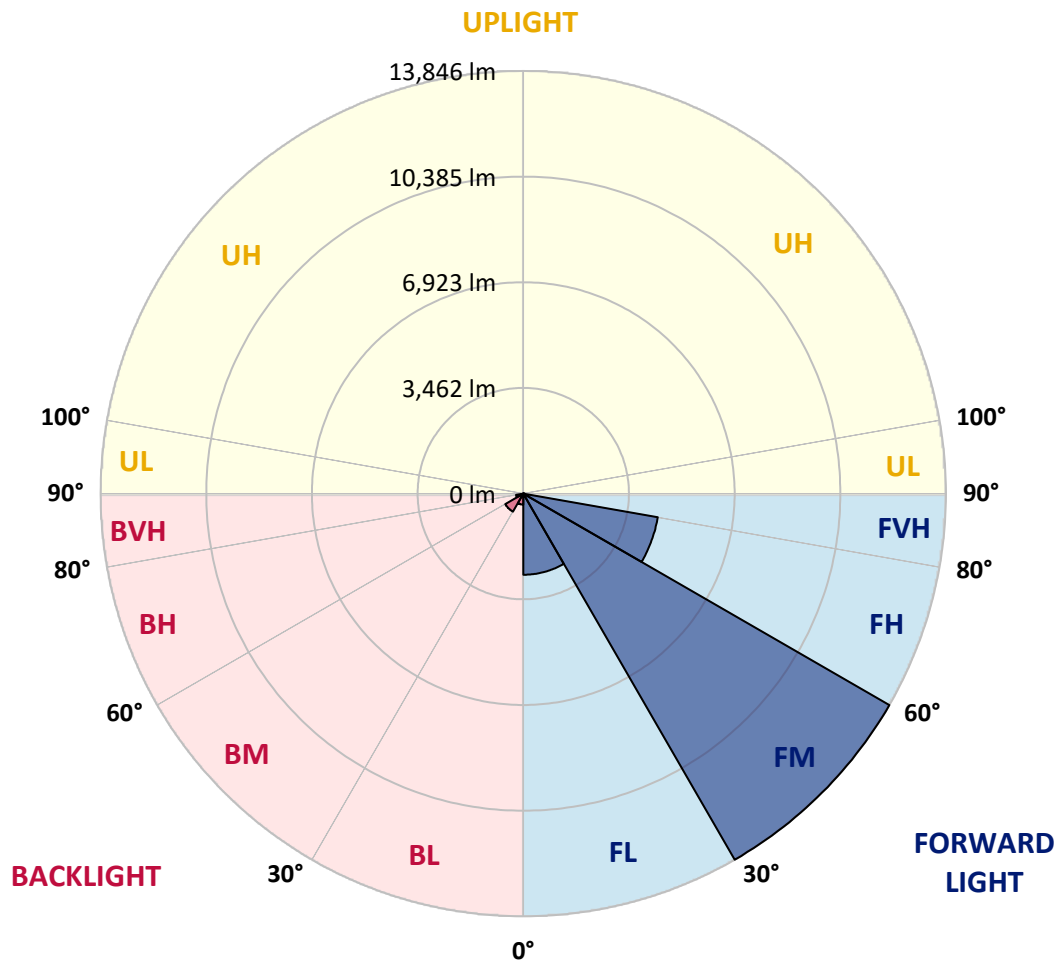
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2657.6	11.9			
FM (30°-60°)	13846.2	62.1			
FH (60°-80°)	4473.2	20.0			G2/5000
FVH (80°-90°)	50.0	0.2			G1/100
BL (0°-30°)	359.5	1.6	B1/500		
BM (30°-60°)	681.4	3.1	B1/1000		
BH (60°-80°)	241.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.5	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°	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8
2.5°	2734.6	2709.9	2660.6	2643.7	2571.3	2458.8	2360.2	2227.7	2123.0	2112.2	1985.9
5°	3662.0	3606.6	3583.5	3472.6	3298.5	3135.2	2854.8	2642.2	2397.2	2378.7	2124.5
7.5°	4555.6	4478.6	4455.5	4350.7	4147.3	3890.1	3526.5	3139.8	2751.5	2716.1	2310.9
10°	5202.7	5213.4	5171.9	5102.5	4937.7	4675.8	4227.5	3699.0	3145.9	3101.3	2520.4
12.5°	5666.4	5664.8	5672.6	5671.0	5583.2	5384.5	4913.0	4304.5	3580.4	3492.6	2760.8
15°	5968.4	5973.0	5996.1	6076.2	6085.4	5962.2	5569.3	4883.8	4084.2	3974.8	3021.1
17.5°	6273.4	6305.7	6342.7	6418.2	6486.0	6436.7	6159.4	5487.7	4540.2	4458.5	3300.0
20°	6777.2	6821.9	6800.3	6846.5	6881.9	6886.6	6672.4	6045.4	5093.3	4956.2	3618.9
22.5°	7582.9	7581.4	7525.9	7442.7	7373.4	7370.3	7176.2	6618.5	5595.5	5463.0	3939.4
25°	8601.3	8605.9	8498.0	8260.8	8088.2	7877.2	7653.8	7120.7	6133.2	5969.9	4276.8
27.5°	9769.1	9739.8	9576.5	9249.9	8907.8	8547.3	8225.4	7704.6	6703.2	6567.7	4663.4
30°	10818.2	10807.4	10616.4	10217.4	9767.5	9405.5	8938.7	8436.4	7441.2	7274.8	5096.4
32.5°	11795.0	11810.4	11545.4	11132.5	10698.0	10280.5	9787.5	9135.9	8165.3	7929.6	5567.8
35°	12557.6	12573.0	12298.7	11955.2	11508.4	11161.8	10691.9	9881.5	8880.1	8681.4	6110.1
37.5°	12964.3	12984.3	12825.6	12566.8	12288.0	12113.9	11676.3	10841.3	9749.0	9628.9	6751.0
40°	13041.3	13064.4	12995.1	12925.8	12910.4	13035.2	12907.3	11972.1	10953.8	10765.8	7706.2
42.5°	12810.2	12841.0	12871.9	13025.9	13340.2	13797.8	14243.0	13506.6	12505.2	12252.5	8874.0
45°	12203.2	12200.1	12321.9	12720.9	13424.9	14401.7	15638.8	15427.7	14618.9	14318.5	10524.0
47.5°	11164.9	11149.4	11412.9	11981.4	13078.3	14512.6	16777.3	17760.2	17316.5	17039.2	12297.2
50°	9582.6	9658.1	10072.6	10866.0	12217.1	14176.8	17128.6	19290.1	19530.4	19236.1	13730.0
52.5°	7729.3	7726.2	8376.3	9453.2	10941.5	13437.3	16883.6	19567.4	20249.9	20024.9	14435.6
55°	5720.3	5760.4	6436.7	7522.8	9285.3	12087.7	16084.0	19282.4	20524.1	20365.4	14900.8
57°	4255.2	4326.1	4868.3	6017.7	7843.3	10752.0	15019.5	18772.4	20631.9	20545.7	15287.5
57.5°	3971.7	3974.8	4503.2	5547.8	7421.2	10238.9	14714.4	18559.8	20628.9	20581.1	15350.7
60°	2445.0	2522.0	2887.1	3749.9	5432.2	7991.2	12670.0	17338.1	20468.6	20538.0	15620.3
62.5°	1463.6	1495.9	1733.2	2260.1	3501.8	5832.8	10368.4	15774.4	20051.1	20262.2	15601.8
65°	941.3	949.0	1056.9	1368.1	2189.2	3942.4	7989.6	13708.4	18971.2	19359.4	14991.7
67.5°	727.2	739.5	782.6	898.2	1269.5	2455.7	5651.0	11503.8	17224.1	17724.8	13512.8
70°	645.5	651.7	667.1	704.1	839.6	1386.6	3515.7	8986.4	14283.1	14424.8	10574.8
72.5°	526.9	543.8	591.6	603.9	665.5	865.8	1956.6	6031.5	9596.5	9631.9	5916.0
75°	408.3	411.3	482.2	517.6	560.8	596.2	873.5	3041.2	4609.5	4363.0	2280.1
77.5°	305.0	318.9	351.3	395.9	457.6	426.8	391.3	1146.2	1431.2	1405.0	662.5
80°	195.7	203.4	245.0	297.3	355.9	278.9	220.3	335.9	314.3	323.5	158.7
82.5°	98.6	100.1	157.1	241.9	226.5	140.2	138.7	137.1	117.1	115.5	73.9
85°	10.8	23.1	101.7	138.7	101.7	46.2	64.7	63.2	61.6	63.2	43.1
87.5°	1.5	1.5	16.9	20.0	13.9	15.4	18.5	20.0	24.6	23.1	18.5
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°	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8	1868.8
2.5°	1924.2	1862.6	1748.6	1639.2	1557.6	1505.2	1437.4	1412.7	1377.3	1372.7	1355.7
5°	2007.4	1890.3	1691.6	1534.5	1408.1	1312.6	1229.4	1160.1	1104.6	1092.3	1098.5
7.5°	2126.1	1952.0	1674.7	1460.5	1284.9	1121.6	989.1	907.4	848.9	827.3	830.4
10°	2260.1	2033.6	1671.6	1381.9	1113.9	913.6	768.8	696.4	662.5	650.1	636.3
12.5°	2418.8	2127.6	1663.9	1260.2	925.9	728.7	625.5	582.4	550.0	540.8	540.8
15°	2597.5	2227.7	1626.9	1109.2	751.8	602.4	533.1	499.2	488.4	479.1	479.1
17.5°	2783.9	2326.3	1549.9	922.8	623.9	516.1	473.0	452.9	437.5	426.8	426.8
20°	2996.5	2423.4	1426.6	758.0	526.9	460.6	426.8	403.6	391.3	382.1	379.0
22.5°	3198.3	2502.0	1269.5	622.4	459.1	414.4	383.6	359.0	346.6	342.0	342.0
25°	3407.8	2549.7	1080.0	514.6	419.0	375.9	342.0	322.0	311.2	308.1	306.6
27.5°	3611.2	2577.5	913.6	449.9	382.1	340.5	308.1	292.7	281.9	278.9	280.4
30°	3857.7	2582.1	751.8	403.6	349.7	306.6	277.3	263.4	257.3	254.2	252.7
32.5°	4107.3	2575.9	631.7	375.9	318.9	277.3	252.7	241.9	237.3	232.6	232.6
35°	4387.7	2543.6	537.7	348.2	289.6	252.7	231.1	221.8	215.7	211.1	209.5
37.5°	4735.9	2526.6	483.8	317.4	263.4	229.6	209.5	200.3	195.7	189.5	188.0
40°	5284.3	2602.1	466.8	289.6	237.3	208.0	189.5	178.7	172.5	166.4	164.8
42.5°	5968.4	2734.6	439.1	261.9	214.1	188.0	169.5	157.1	146.4	138.7	135.6
45°	6854.2	2908.7	395.9	232.6	194.1	166.4	149.4	134.0	120.2	114.0	112.5
47.5°	7783.2	3076.6	357.4	209.5	172.5	147.9	129.4	112.5	100.1	95.5	94.0
50°	8353.2	3110.5	332.8	183.3	151.0	127.9	109.4	94.0	86.3	81.7	81.7
52.5°	8613.6	3056.6	298.9	160.2	131.0	112.5	94.0	81.7	77.0	73.9	72.4
55°	8795.4	2973.4	254.2	138.7	112.5	95.5	83.2	73.9	67.8	64.7	63.2
57°	8901.7	2860.9	220.3	121.7	97.1	83.2	73.9	66.2	60.1	53.9	53.9
57.5°	8906.3	2817.8	211.1	120.2	92.4	80.1	72.4	64.7	57.0	50.8	49.3
60°	8769.2	2522.0	169.5	101.7	73.9	67.8	60.1	50.8	40.1	33.9	32.4
62.5°	8328.6	2146.1	140.2	86.3	60.1	52.4	43.1	38.5	27.7	20.0	20.0
65°	7661.5	1740.9	120.2	69.3	49.3	38.5	29.3	27.7	16.9	9.2	7.7
67.5°	6697.1	1355.7	101.7	57.0	41.6	27.7	20.0	18.5	9.2	3.1	0.0
70°	5102.5	924.4	84.7	46.2	30.8	20.0	13.9	10.8	6.2	1.5	0.0
72.5°	2941.0	508.4	70.9	35.4	23.1	15.4	10.8	6.2	6.2	0.0	0.0
75°	1050.7	218.8	53.9	26.2	18.5	12.3	7.7	3.1	4.6	1.5	0.0
77.5°	334.3	117.1	35.4	20.0	15.4	9.2	6.2	3.1	3.1	1.5	0.0
80°	98.6	61.6	21.6	16.9	10.8	7.7	4.6	1.5	3.1	1.5	0.0
82.5°	53.9	30.8	16.9	12.3	10.8	6.2	4.6	1.5	1.5	1.5	0.0
85°	27.7	18.5	13.9	12.3	10.8	6.2	4.6	1.5	0.0	1.5	1.5
87.5°	15.4	13.9	13.9	12.3	10.8	7.7	4.6	1.5	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)