

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: P453716

Luminaire Tested: **GALN-SA4D-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
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-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20835 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

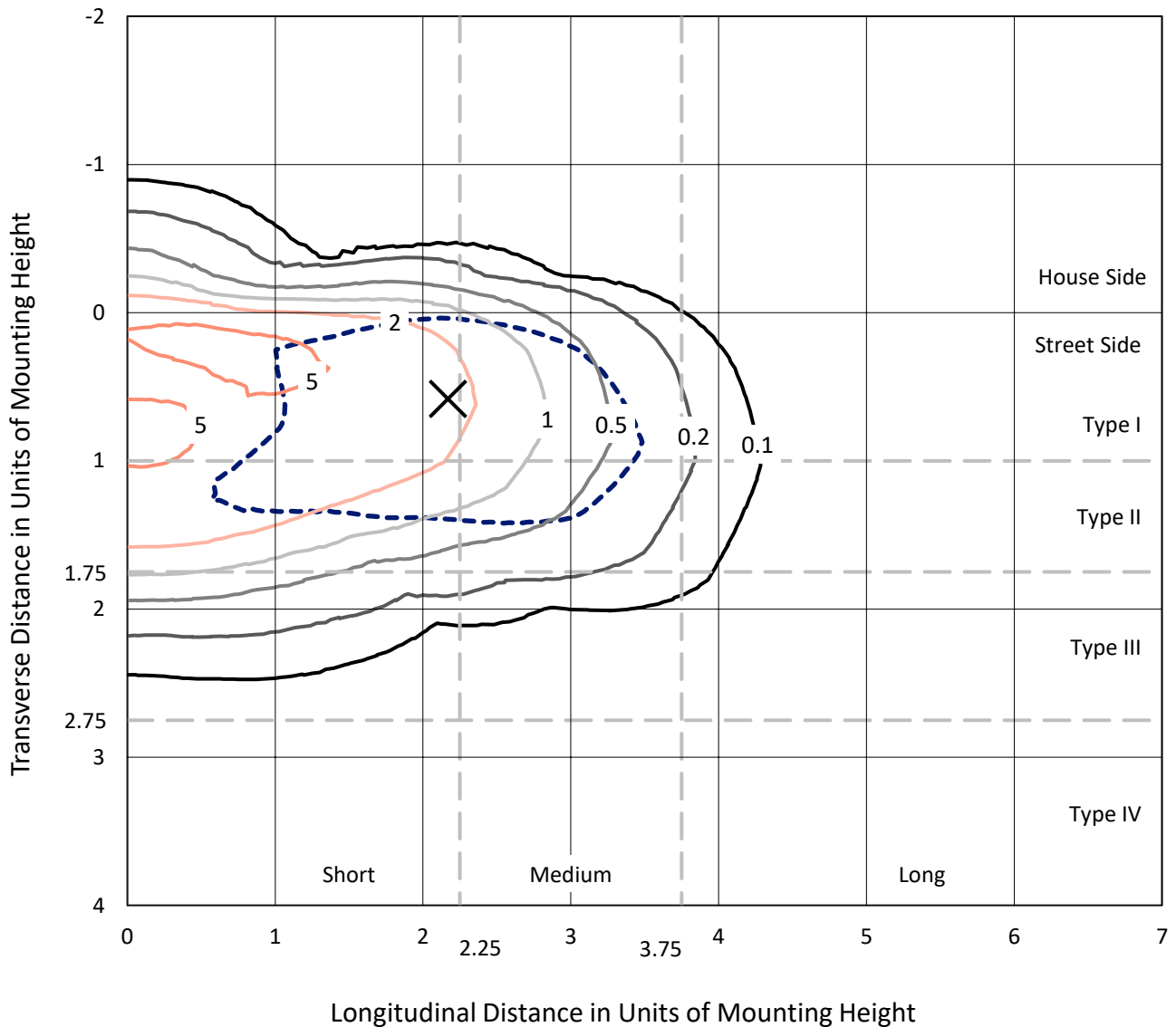
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

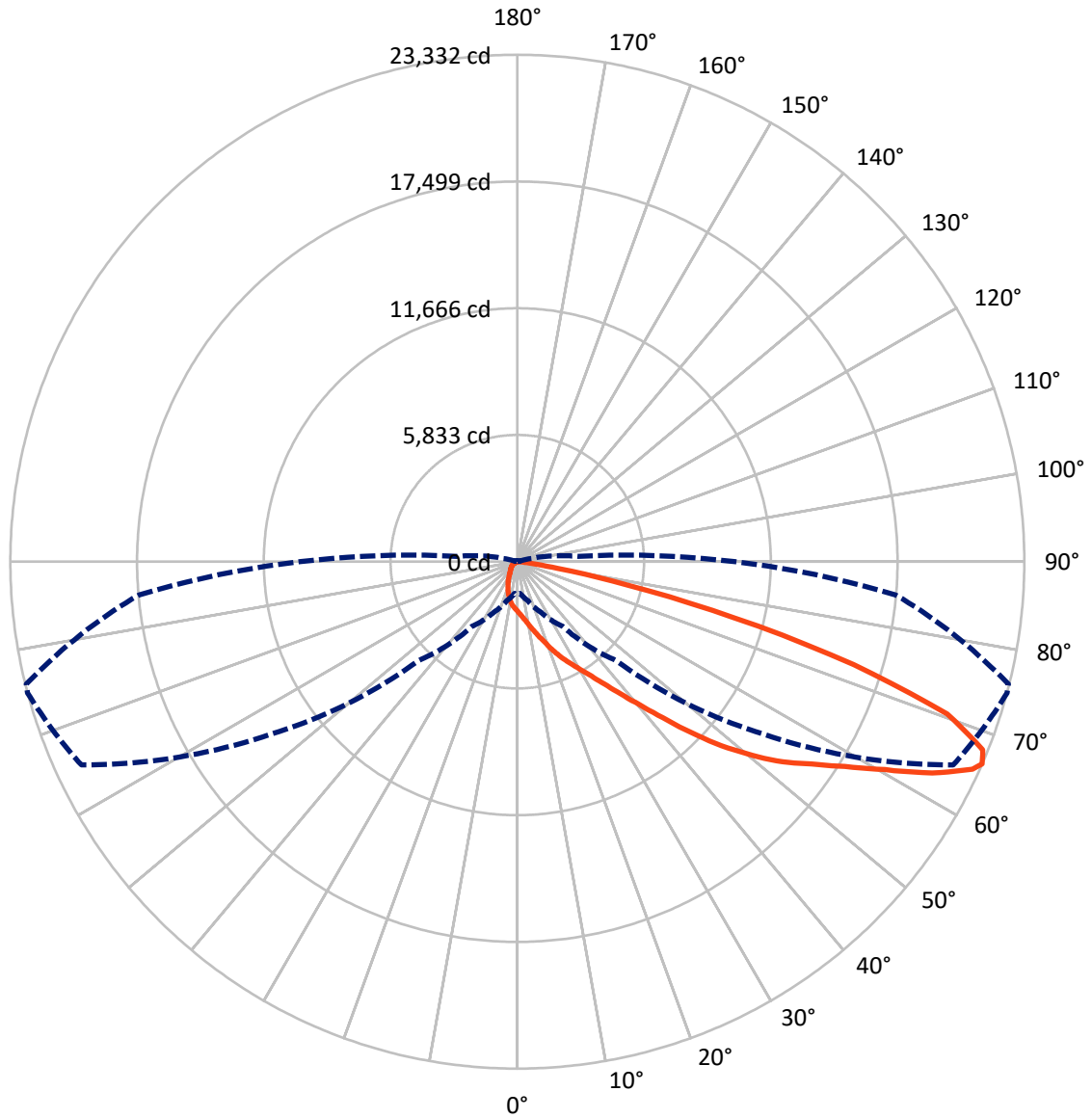
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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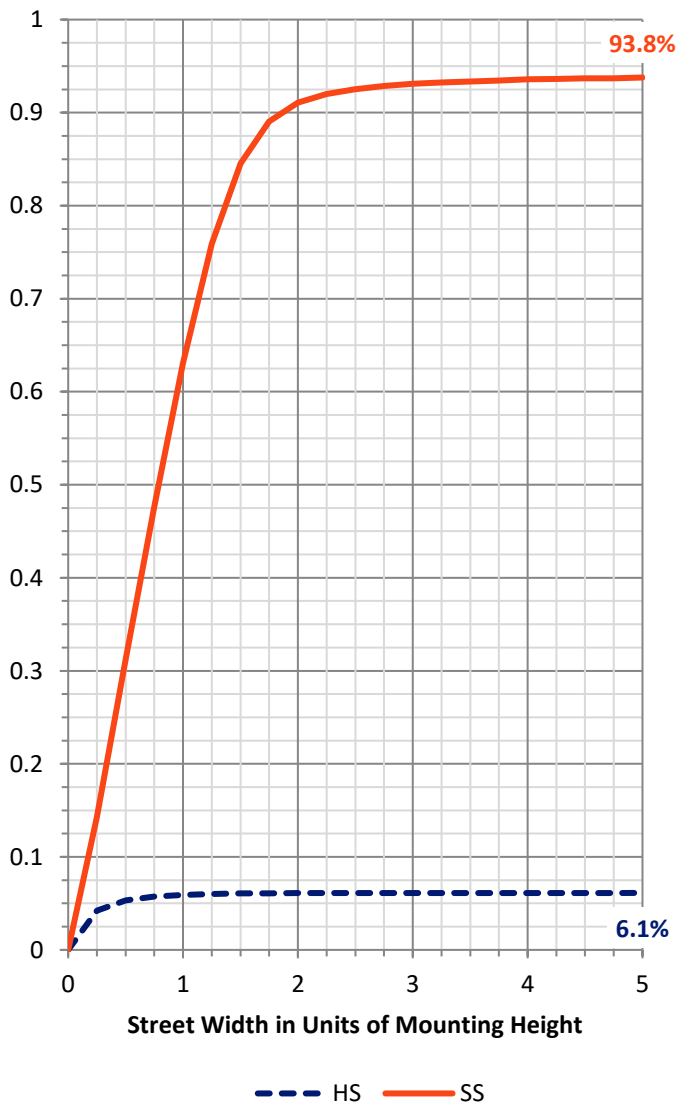
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1286.3	0.0	1286.3
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	19548.7	0.0	19548.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	20835.0	0.0	20835.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.8	1.1
10°-20°	646.8	3.1
20°-30°	1116.9	5.4
30°-40°	2014.6	9.7
40°-50°	3639.4	17.5
50°-60°	5673.8	27.2
60°-70°	5389.9	25.9
70°-80°	2020.0	9.7
80°-90°	114.0	0.5
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°	20835.0	100.0
0°-180°	20835.0	100.0



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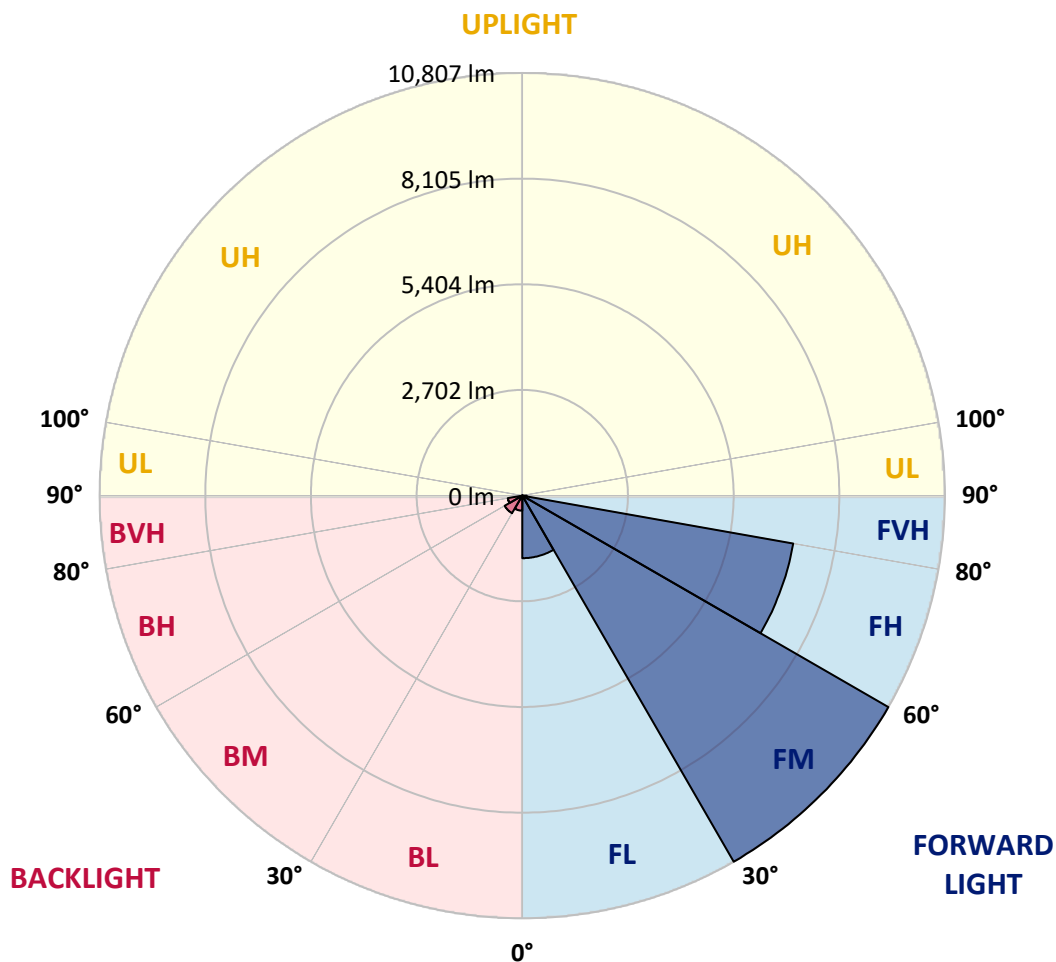
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1599.3	7.7			
FM (30°-60°)	10807.1	51.9			
FH (60°-80°)	7034.3	33.8			G3/7500
FVH (80°-90°)	108.1	0.5			G2/225
BL (0°-30°)	384.1	1.8	B1/500		
BM (30°-60°)	520.6	2.5	B1/1000		
BH (60°-80°)	375.6	1.8	B1/500		G1/500
BVH (80°-90°)	5.9	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	2722.2	2688.3	2699.1	2683.7	2648.3	2595.9	2549.7	2483.4	2417.2	2406.4	2332.4
5°	3081.2	3071.9	3059.6	3014.9	2990.3	2910.1	2814.6	2700.6	2563.5	2538.9	2404.8
7.5°	3326.1	3321.5	3327.6	3304.5	3283.0	3210.6	3108.9	2953.3	2740.7	2726.8	2503.4
10°	3406.2	3418.5	3441.6	3478.6	3512.5	3489.4	3412.4	3218.3	2970.2	2930.2	2615.9
12.5°	3360.0	3373.9	3429.3	3527.9	3637.3	3700.5	3669.7	3527.9	3213.6	3181.3	2742.2
15°	3241.4	3258.3	3336.9	3489.4	3685.1	3863.8	3940.8	3839.1	3497.1	3444.7	2894.7
17.5°	3065.7	3090.4	3202.9	3404.7	3672.7	3980.9	4198.1	4164.2	3799.1	3749.8	3061.1
20°	2933.3	2951.7	3047.3	3278.3	3620.4	4045.6	4443.0	4538.5	4171.9	4087.2	3256.8
22.5°	3021.1	3027.2	3059.6	3198.2	3526.4	4062.5	4658.7	4928.3	4567.8	4492.3	3460.1
25°	3450.9	3389.3	3356.9	3326.1	3506.4	4047.1	4854.4	5335.0	4962.2	4882.1	3662.0
27.5°	4128.7	4101.0	3937.7	3719.0	3677.4	4067.1	4983.8	5720.2	5333.5	5247.2	3859.1
30°	4866.7	4818.9	4718.8	4398.3	4076.4	4208.9	5077.7	6094.5	5772.5	5658.5	4039.4
32.5°	5544.5	5575.3	5425.9	5096.2	4723.4	4510.8	5199.4	6502.8	6276.3	6134.6	4248.9
35°	6334.9	6396.5	6166.9	5851.1	5415.1	5056.2	5436.7	6963.4	6915.6	6736.9	4572.4
37.5°	7137.5	7174.5	7034.3	6590.6	6197.7	5749.4	5883.5	7531.9	7702.9	7550.4	4959.1
40°	7812.3	7863.1	7759.9	7365.5	6946.5	6552.1	6532.0	8151.2	8639.6	8482.4	5535.3
42.5°	8328.4	8366.9	8370.0	8091.1	7713.7	7535.0	7359.3	8941.5	9813.5	9631.7	6203.9
45°	8980.0	9035.5	9003.1	8813.6	8531.7	8499.4	8408.5	9896.7	11218.5	10988.9	7071.2
47.5°	9987.6	10024.5	9944.4	9721.0	9434.5	9485.3	9431.4	10967.4	12651.2	12454.0	7969.4
50°	10687.0	10748.6	10862.6	10952.0	10744.0	10556.0	10395.8	11967.2	14011.5	13834.4	8887.6
52.5°	10679.3	10781.0	11141.5	11591.3	12045.8	11988.8	11528.1	13071.8	15310.3	15091.5	9750.3
55°	9959.8	10157.0	10687.0	11485.0	12743.7	13370.7	13161.1	14350.5	16431.8	16283.9	10750.1
57.5°	8474.7	8594.9	9331.3	10446.7	12353.9	14020.8	15053.0	16083.6	17776.7	17707.4	12303.0
60°	5700.1	5754.1	6701.5	8080.3	10517.5	13372.2	16439.5	18180.3	19432.8	19398.9	14116.3
62.5°	3266.0	3289.1	3976.2	5139.4	7484.1	11332.5	16556.6	20767.0	21418.6	21437.1	16214.6
65°	1757.8	1770.1	2324.7	3016.4	4553.9	8077.2	14888.1	22184.3	23023.9	23059.4	17514.8
66°	1517.5	1458.9	1850.2	2571.2	3623.4	6428.8	13832.8	22133.5	23332.0	23293.5	17468.6
67.5°	1153.9	1206.3	1477.4	1976.6	2685.2	4570.9	11420.3	21149.0	23097.9	22977.7	16758.4
70°	825.7	847.3	1052.2	1409.6	1828.7	2508.1	7297.7	17565.7	20993.4	20831.7	14600.0
72.5°	533.0	556.1	745.6	1019.9	1321.8	1369.6	4085.6	12691.3	16185.3	16162.2	10995.1
75°	380.5	402.1	493.0	730.2	993.7	847.3	1967.3	8553.3	10289.5	10220.2	6801.6
77.5°	275.8	286.5	329.7	477.6	710.2	607.0	912.0	4567.8	5122.4	5364.3	3005.7
80°	158.7	167.9	229.5	291.2	480.7	414.4	436.0	1833.3	1890.3	1799.4	939.8
82.5°	78.6	89.4	137.1	198.7	300.4	278.8	200.3	551.5	582.3	566.9	237.2
85°	18.5	23.1	77.0	130.9	146.4	124.8	97.1	161.8	200.3	195.7	90.9
87.5°	1.5	3.1	27.7	23.1	24.6	41.6	33.9	41.6	64.7	60.1	32.4
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°	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5	2278.5
2.5°	2298.5	2269.3	2184.5	2101.3	2032.0	1959.6	1893.4	1854.9	1839.4	1822.5	1830.2
5°	2330.9	2260.0	2089.0	1941.1	1796.3	1673.1	1574.5	1511.3	1480.5	1475.9	1468.2
7.5°	2374.0	2252.3	1987.3	1756.3	1566.8	1429.7	1317.2	1226.3	1198.6	1173.9	1153.9
10°	2426.4	2238.5	1861.0	1562.1	1360.3	1187.8	1039.9	932.0	876.6	861.2	872.0
12.5°	2481.9	2212.3	1728.5	1383.4	1150.8	930.5	793.4	739.5	724.1	717.9	719.4
15°	2537.3	2179.9	1589.9	1210.9	916.6	742.6	679.4	665.5	659.4	656.3	653.2
17.5°	2588.2	2127.5	1434.3	1043.0	742.6	634.7	611.6	599.3	587.0	582.3	574.6
20°	2648.3	2067.5	1294.1	855.0	628.6	574.6	546.9	523.8	505.3	493.0	491.4
22.5°	2705.3	1990.4	1147.7	708.7	573.1	516.1	471.4	446.8	425.2	409.8	414.4
25°	2736.1	1896.5	1016.8	617.8	522.3	457.6	408.3	377.4	354.3	346.6	345.1
27.5°	2736.1	1780.9	888.9	565.4	476.0	405.2	354.3	325.1	309.7	298.9	300.4
30°	2714.5	1653.0	770.3	525.3	436.0	359.0	311.2	285.0	272.7	265.0	263.4
32.5°	2697.6	1531.3	668.6	486.8	394.4	318.9	277.3	257.3	245.0	237.2	237.2
35°	2723.7	1426.6	590.0	448.3	355.9	288.1	251.1	232.6	220.3	214.1	212.6
37.5°	2793.1	1331.1	530.0	406.7	320.4	261.9	232.6	211.1	198.7	191.0	188.0
40°	2964.1	1277.1	485.3	368.2	286.5	240.3	211.1	191.0	175.6	167.9	166.4
42.5°	3238.3	1278.7	442.1	332.8	260.4	221.8	192.6	169.5	152.5	144.8	143.3
45°	3651.2	1337.2	408.3	298.9	237.2	201.8	172.5	147.9	132.5	124.8	124.8
47.5°	4145.7	1451.2	379.0	269.6	215.7	183.3	152.5	127.9	112.5	106.3	106.3
50°	4681.8	1599.1	349.7	238.8	197.2	163.3	130.9	110.9	98.6	94.0	94.0
52.5°	5228.7	1777.8	320.4	214.1	177.2	141.7	112.5	98.6	87.8	84.7	83.2
55°	5946.6	2005.8	289.6	188.0	155.6	121.7	100.1	86.3	73.9	69.3	67.8
57.5°	7051.2	2349.4	255.7	164.8	127.9	101.7	86.3	72.4	58.5	50.8	49.3
60°	8383.8	2768.4	220.3	144.8	103.2	83.2	69.3	55.5	43.1	33.9	32.4
62.5°	9631.7	3034.9	186.4	121.7	81.7	63.2	49.3	41.6	30.8	21.6	20.0
65°	10183.2	2945.6	154.1	98.6	64.7	44.7	32.4	29.3	18.5	9.2	7.7
66°	9999.9	2813.1	141.7	89.4	58.5	38.5	27.7	24.6	13.9	4.6	4.6
67.5°	9459.1	2500.4	123.2	77.0	50.8	30.8	21.6	18.5	7.7	1.5	0.0
70°	8105.0	2022.8	97.1	57.0	37.0	21.6	12.3	9.2	4.6	0.0	0.0
72.5°	6225.5	1506.7	77.0	43.1	26.2	12.3	6.2	3.1	4.6	0.0	0.0
75°	3814.5	861.2	60.1	32.4	16.9	7.7	4.6	0.0	4.6	1.5	0.0
77.5°	1693.1	386.7	40.1	21.6	12.3	6.2	3.1	0.0	3.1	1.5	0.0
80°	428.3	126.3	23.1	15.4	9.2	4.6	1.5	0.0	3.1	3.1	1.5
82.5°	117.1	46.2	16.9	12.3	7.7	4.6	1.5	0.0	3.1	3.1	3.1
85°	46.2	21.6	15.4	12.3	9.2	4.6	1.5	0.0	3.1	3.1	3.1
87.5°	21.6	15.4	15.4	13.9	10.8	4.6	1.5	0.0	3.1	1.5	3.1
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)