

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: P533965

Luminaire Tested: **GALN-SA9B-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24930 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 364
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

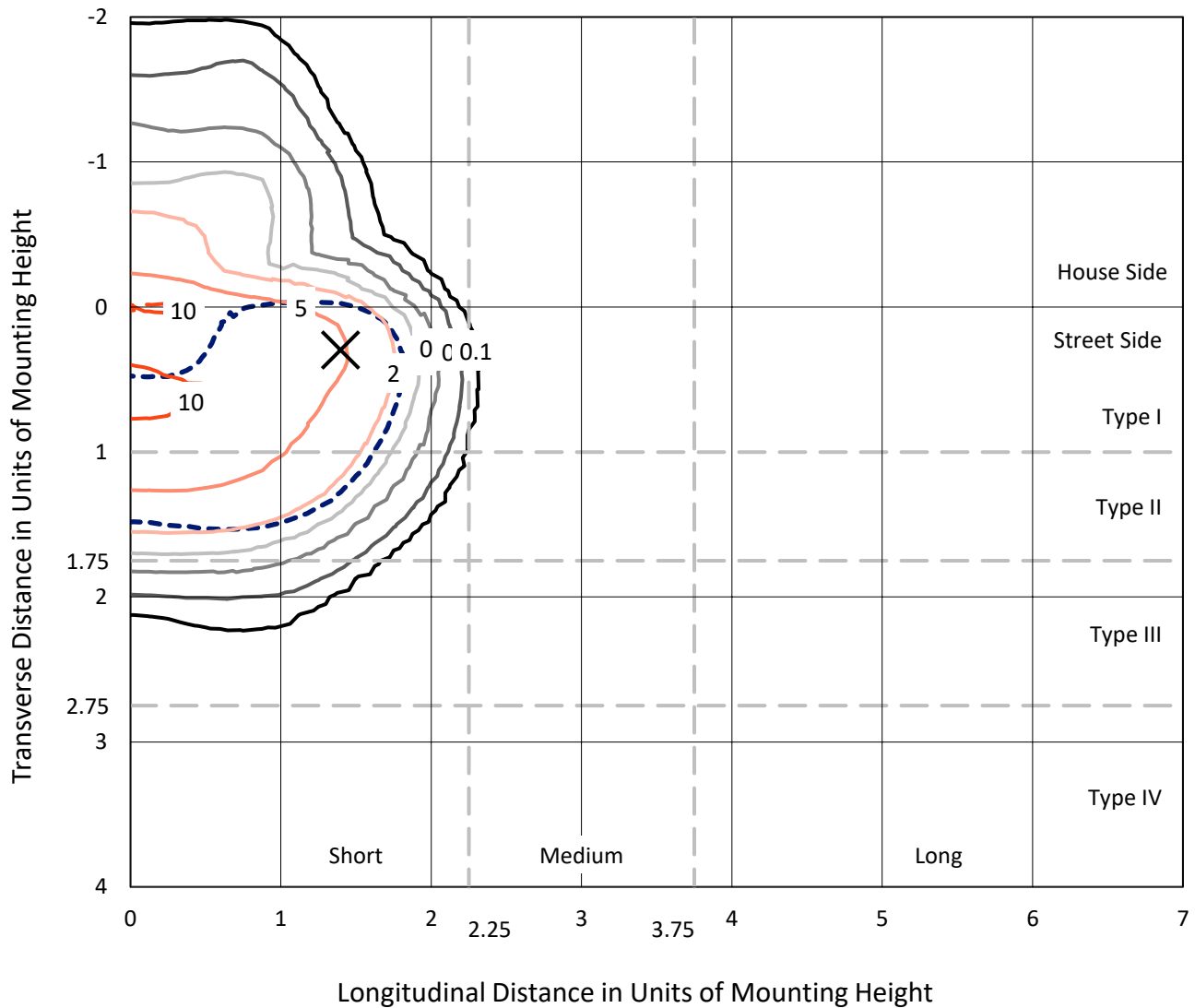


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

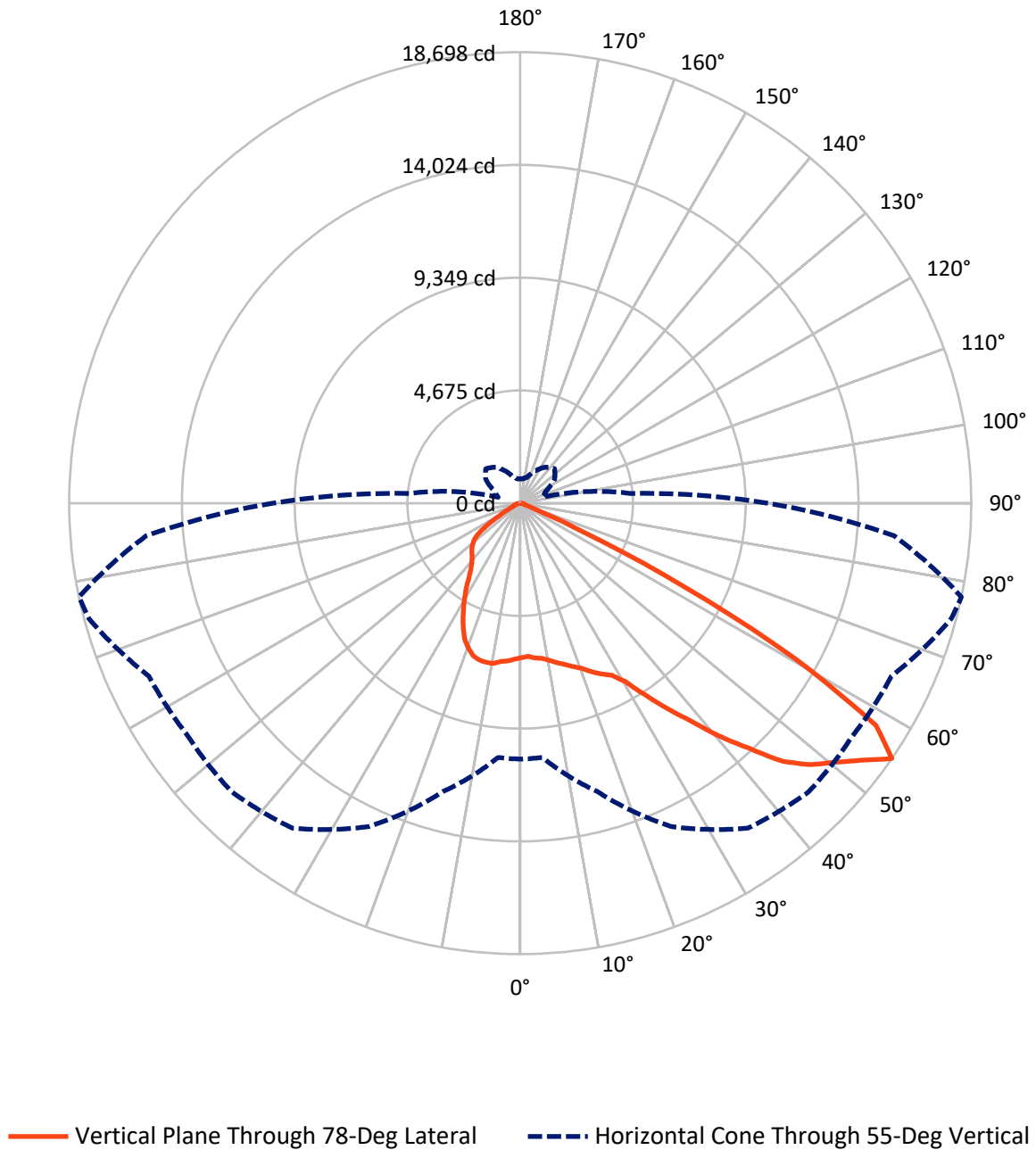


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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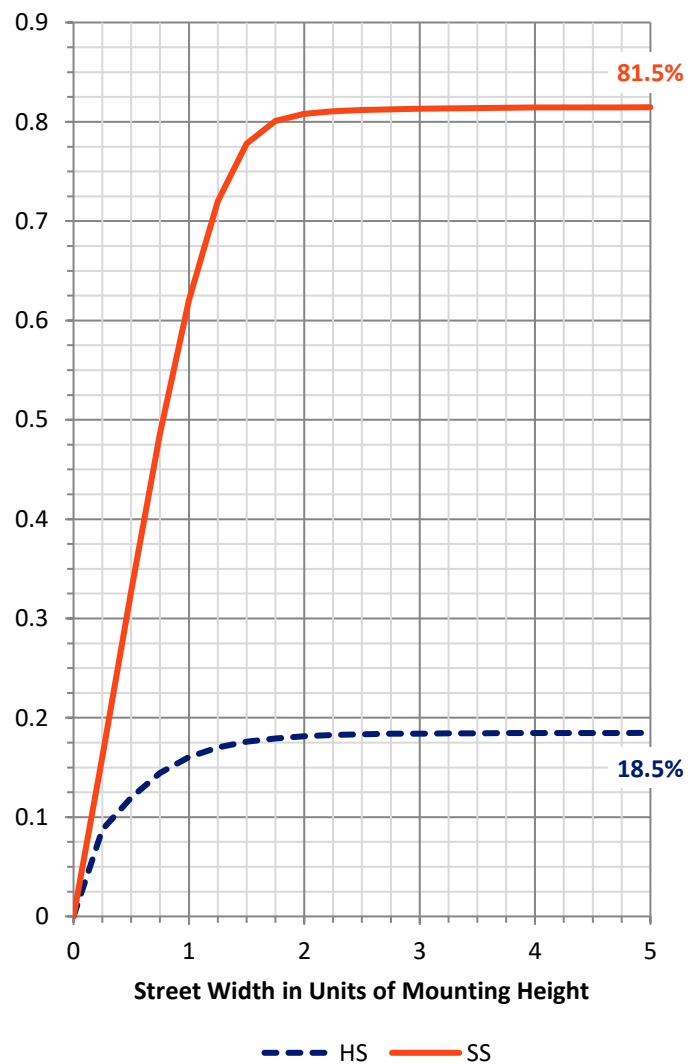
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4630.5	0.0	4630.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	20299.5	0.0	20299.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	24930.0	0.0	24930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	571.5	2.3
10°-20°	1512.5	6.1
20°-30°	2651.2	10.6
30°-40°	4371.5	17.5
40°-50°	6361.1	25.5
50°-60°	7207.8	28.9
60°-70°	2060.9	8.3
70°-80°	160.0	0.6
80°-90°	33.3	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°	24930.0	100.0
0°-180°	24930.0	100.0

Coefficient of Utilization



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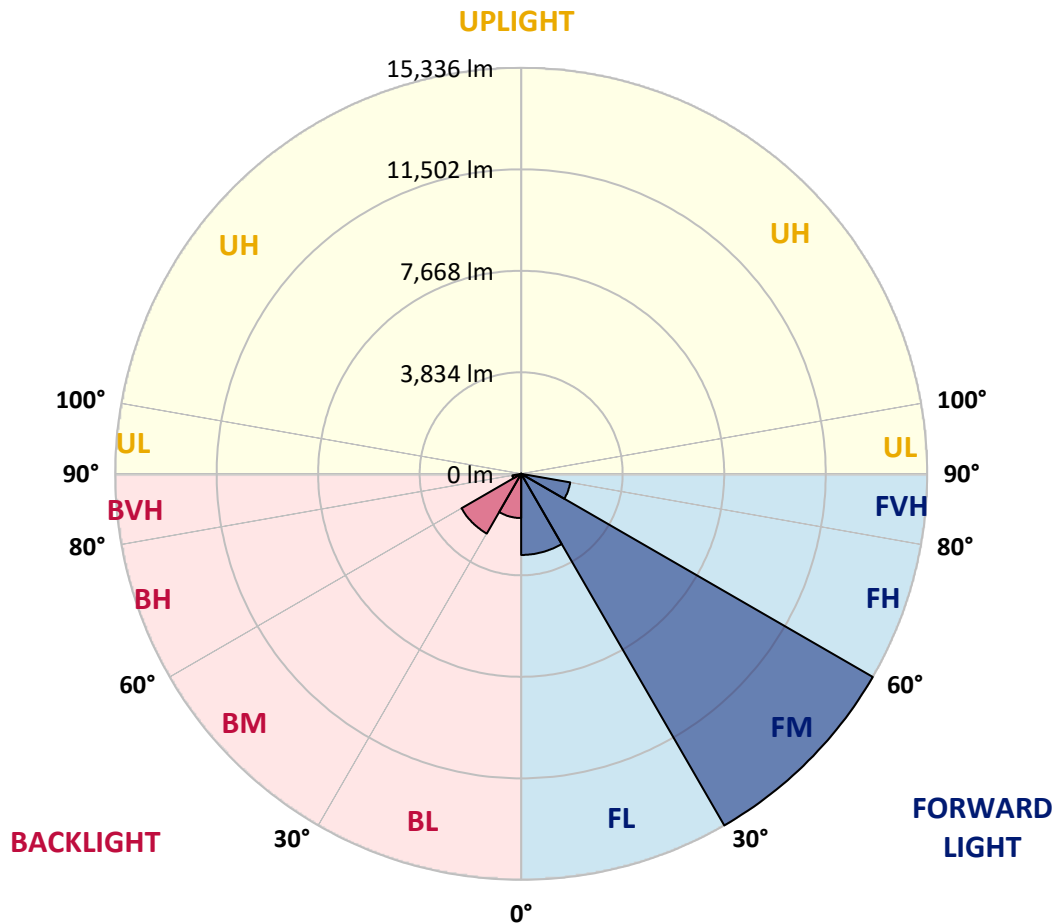
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3064.6	12.3			
FM	(30°-60°)	15335.8	61.5			
FH	(60°-80°)	1882.9	7.6			G2/5000
FVH	(80°-90°)	16.2	0.1			G1/100
BL	(0°-30°)	1670.7	6.7	B3/2500		
BM	(30°-60°)	2604.7	10.4	B3/5000		
BH	(60°-80°)	338.0	1.4	B1/500		G1/500
BVH	(80°-90°)	17.1	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5
2.5°	6026.2	6084.1	6093.1	6164.4	6159.9	6280.3	6315.9	6320.4	6400.6	6360.5	6463.0
5°	5856.8	5825.6	5812.2	5937.0	5972.7	6079.7	6168.8	6222.3	6387.2	6445.2	6552.1
7.5°	5705.3	5705.3	5714.2	5825.6	5812.2	5950.4	6044.0	6208.9	6449.6	6498.7	6627.9
10°	5558.2	5504.7	5571.6	5687.4	5785.5	5847.9	6044.0	6200.0	6480.8	6623.5	6801.8
12.5°	5482.4	5509.2	5518.1	5602.8	5709.7	5896.9	6003.9	6262.4	6703.7	6788.4	6980.0
15°	5959.3	5905.8	5776.6	5700.8	5790.0	5879.1	6146.5	6409.5	6819.6	6939.9	7153.9
17.5°	6512.0	6467.5	6360.5	6155.5	5954.9	6119.8	6329.3	6570.0	6944.4	7122.7	7439.1
20°	7234.1	7162.8	7055.8	6654.7	6480.8	6302.5	6525.4	6810.7	7149.4	7309.9	7635.3
22.5°	8094.4	8094.4	7853.7	7367.8	7006.8	6837.4	6931.0	7095.9	7376.7	7595.1	7916.1
25°	8990.3	8963.5	8745.1	8241.4	7630.8	7430.2	7537.2	7653.1	7728.9	7849.2	8063.2
27.5°	10015.4	9859.4	9583.1	9025.9	8486.6	8098.8	8214.7	8112.2	8018.6	8081.0	8388.5
30°	10710.8	10808.8	10456.7	9921.8	9413.7	8981.3	9003.6	8914.5	8486.6	8575.7	8758.5
32.5°	11432.8	11495.2	11299.1	11004.9	10496.8	9993.1	9810.4	9734.6	9413.7	9453.8	9275.5
35°	12034.6	12154.9	11981.1	11851.8	11704.7	11299.1	10795.4	11040.6	10523.6	10425.5	9961.9
37.5°	12587.3	12551.6	12756.6	12622.9	12591.7	12306.5	11753.8	11802.8	11455.1	11432.8	10898.0
40°	13082.0	13090.9	13371.7	13434.1	13309.3	12801.2	11998.9	12386.7	12667.5	12694.2	12007.8
42.5°	13492.1	13612.4	13853.1	14356.8	14169.6	13322.7	12253.0	12676.4	13719.4	13884.3	13059.7
45°	13848.7	14093.8	14392.4	14842.6	14735.7	14062.6	12885.9	13273.7	14842.6	15275.0	14049.2
47.5°	13870.9	14191.9	14517.2	15185.8	15319.5	14459.3	13541.1	14218.6	15734.1	16202.1	14771.3
50°	13781.8	13951.2	14601.9	15328.5	15631.6	15105.6	14459.3	15012.0	16598.8	16893.0	15136.8
52.5°	12725.4	12854.7	14160.7	15462.2	16193.2	15836.6	15676.1	16117.4	17481.3	17699.7	15480.0
55°	10608.2	10586.0	12382.2	14789.1	16451.7	16919.7	16821.6	16977.6	18502.0	18698.1	15564.7
57.5°	7256.4	7662.0	9213.1	12315.4	14869.4	16665.6	16768.2	16509.6	17311.9	17387.7	13567.9
60°	3913.5	4082.8	5330.9	8219.2	11321.4	13581.2	13848.7	13380.6	13318.2	13104.3	9685.6
62.5°	1555.6	1640.3	2349.0	4069.5	6168.8	8254.8	8829.8	8638.1	8228.1	7666.5	5014.4
65°	739.9	793.4	1167.8	1903.2	2736.7	3441.0	4016.0	4194.3	3093.3	2785.8	1653.6
67.5°	503.7	543.8	851.3	1087.6	976.1	1020.7	1328.3	1234.7	726.5	619.6	459.1
70°	383.3	410.1	682.0	739.9	436.8	307.5	343.2	320.9	298.6	303.1	298.6
72.5°	271.9	294.2	499.2	436.8	191.7	142.6	182.7	218.4	218.4	218.4	213.9
75°	164.9	187.2	289.7	169.4	75.8	75.8	115.9	147.1	156.0	160.5	151.5
77.5°	84.7	107.0	98.1	49.0	49.0	57.9	84.7	102.5	111.4	111.4	107.0
80°	17.8	17.8	17.8	26.7	49.0	62.4	84.7	93.6	107.0	107.0	98.1
82.5°	0.0	4.5	13.4	26.7	44.6	57.9	80.2	93.6	107.0	111.4	102.5
85°	0.0	4.5	8.9	17.8	31.2	35.7	31.2	26.7	26.7	26.7	26.7
87.5°	0.0	0.0	4.5	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5	6409.5
2.5°	6471.9	6485.3	6463.0	6458.5	6440.7	6494.2	6364.9	6333.7	6414.0	6338.2	6356.0
5°	6556.6	6587.8	6547.7	6480.8	6382.8	6231.2	6102.0	5932.6	5852.4	5794.4	5785.5
7.5°	6619.0	6641.3	6601.2	6387.2	6093.1	5709.7	5424.5	5215.0	5050.1	5001.0	4920.8
10°	6873.1	6877.5	6677.0	6204.5	5629.5	5125.8	4689.0	4368.1	4203.2	4100.7	4056.1
12.5°	7042.4	7033.5	6627.9	5843.4	5076.8	4408.2	3909.0	3521.2	3369.7	3320.6	3289.4
15°	7256.4	7207.4	6512.0	5473.5	4363.6	3641.6	3191.4	2924.0	2910.6	2879.4	2910.6
17.5°	7425.8	7287.6	6342.7	4800.5	3681.7	2999.7	2705.5	2723.4	2759.0	2790.2	2794.7
20°	7702.1	7416.9	5954.9	4212.1	3048.8	2571.8	2567.4	2647.6	2736.7	2772.4	2808.1
22.5°	7911.6	7470.3	5540.4	3583.6	2531.7	2398.0	2473.8	2594.1	2661.0	2696.6	2750.1
25°	7987.4	7323.3	4987.7	2955.2	2282.1	2317.8	2433.7	2513.9	2598.6	2638.7	2616.4
27.5°	8063.2	7247.5	4328.0	2433.7	2148.4	2264.3	2362.3	2442.6	2469.3	2522.8	2558.5
30°	8245.9	6984.5	3735.2	2103.8	2081.5	2228.6	2299.9	2326.7	2398.0	2429.2	2429.2
32.5°	8393.0	6882.0	3106.7	1947.8	2072.6	2246.5	2255.4	2255.4	2264.3	2242.0	2233.1
35°	8696.1	6529.9	2545.1	1854.2	2068.2	2250.9	2273.2	2197.4	1992.4	1912.2	1889.9
37.5°	9070.5	6302.5	2130.6	1831.9	2099.4	2304.4	2340.1	2054.8	1787.4	1658.1	1635.8
40°	9525.1	6142.1	1858.7	1823.0	2170.7	2429.2	2322.2	1943.4	1595.7	1408.5	1399.6
42.5°	10055.5	5995.0	1675.9	1818.6	2259.8	2558.5	2304.4	1849.8	1399.6	1274.8	1292.6
45°	10479.0	5914.8	1551.1	1787.4	2291.0	2634.2	2317.8	1684.8	1319.3	1239.1	1248.0
47.5°	10808.8	5745.4	1448.6	1733.9	2286.6	2661.0	2197.4	1618.0	1279.2	1301.5	1323.8
50°	10817.7	5518.1	1319.3	1618.0	2219.7	2611.9	2059.2	1555.6	1270.3	1363.9	1408.5
52.5°	10697.4	5197.1	1181.2	1453.1	2063.7	2442.6	1934.4	1528.8	1230.2	1221.3	1274.8
55°	10269.5	4595.4	949.4	1176.7	1742.8	2014.7	1823.0	1479.8	1109.9	1007.3	1016.3
57.5°	8299.4	3293.9	699.8	842.4	1234.7	1475.3	1644.7	1457.5	998.4	855.8	860.2
60°	5139.2	1867.6	512.6	575.0	762.2	895.9	1332.7	1355.0	891.4	722.1	713.2
62.5°	2638.7	922.6	396.7	405.6	468.0	526.0	913.7	1136.6	806.8	686.4	686.4
65°	882.5	454.6	347.7	312.0	312.0	325.4	552.7	788.9	682.0	575.0	575.0
67.5°	378.9	338.8	303.1	271.9	249.6	236.2	312.0	459.1	508.1	436.8	419.0
70°	294.2	285.3	263.0	227.3	196.1	178.3	182.7	236.2	289.7	280.8	271.9
72.5°	218.4	218.4	209.5	178.3	151.5	129.3	120.3	124.8	138.2	142.6	147.1
75°	151.5	156.0	156.0	138.2	111.4	93.6	80.2	66.9	53.5	44.6	40.1
77.5°	102.5	107.0	115.9	102.5	84.7	62.4	49.0	35.7	22.3	8.9	8.9
80°	89.1	102.5	111.4	102.5	89.1	66.9	49.0	26.7	13.4	0.0	0.0
82.5°	93.6	102.5	115.9	98.1	84.7	62.4	49.0	31.2	13.4	4.5	0.0
85°	22.3	22.3	26.7	31.2	40.1	44.6	35.7	22.3	13.4	4.5	0.0
87.5°	8.9	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	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)