

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: P457897

Luminaire Tested: **GALN-SA9B-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46587 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

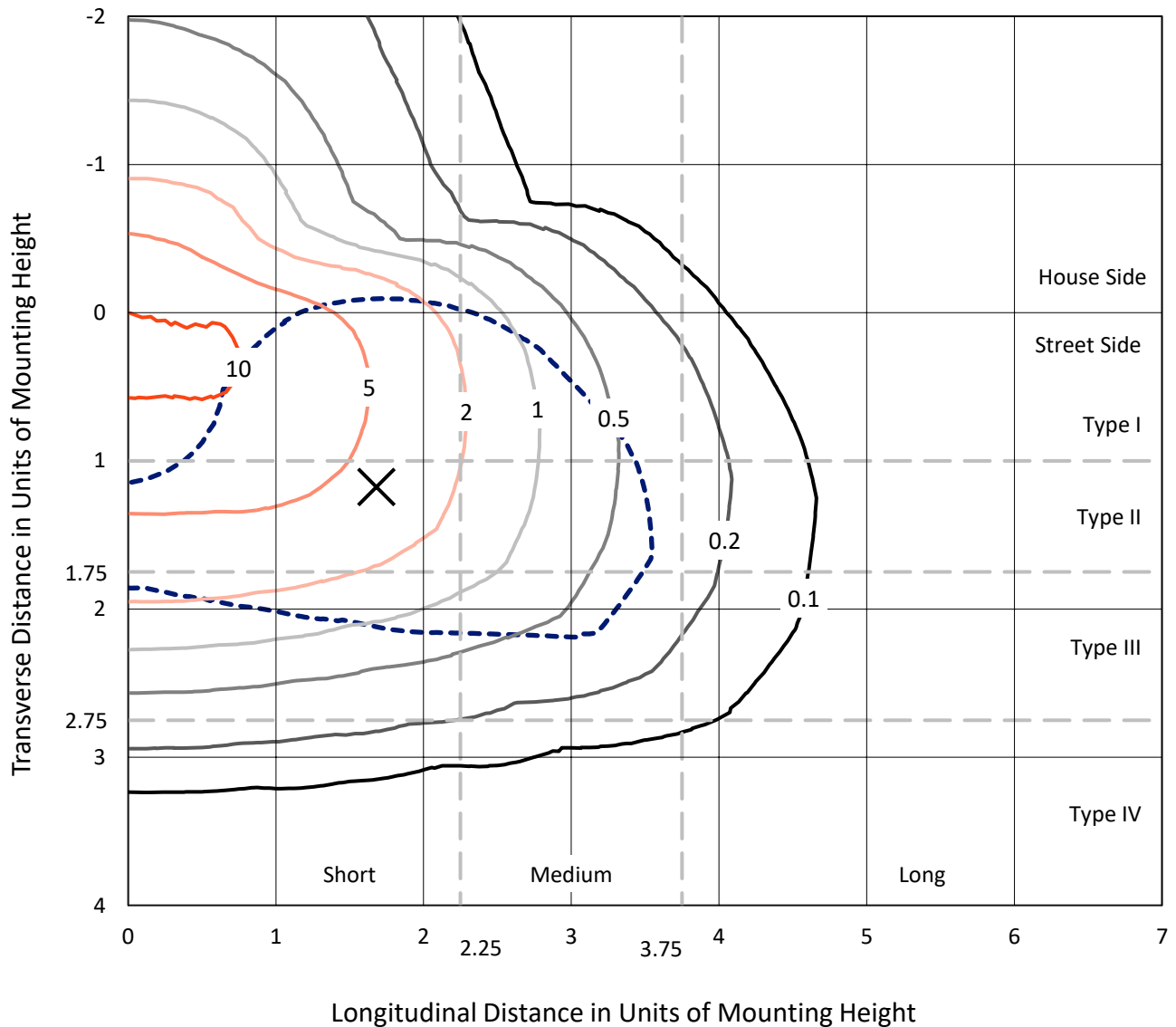
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

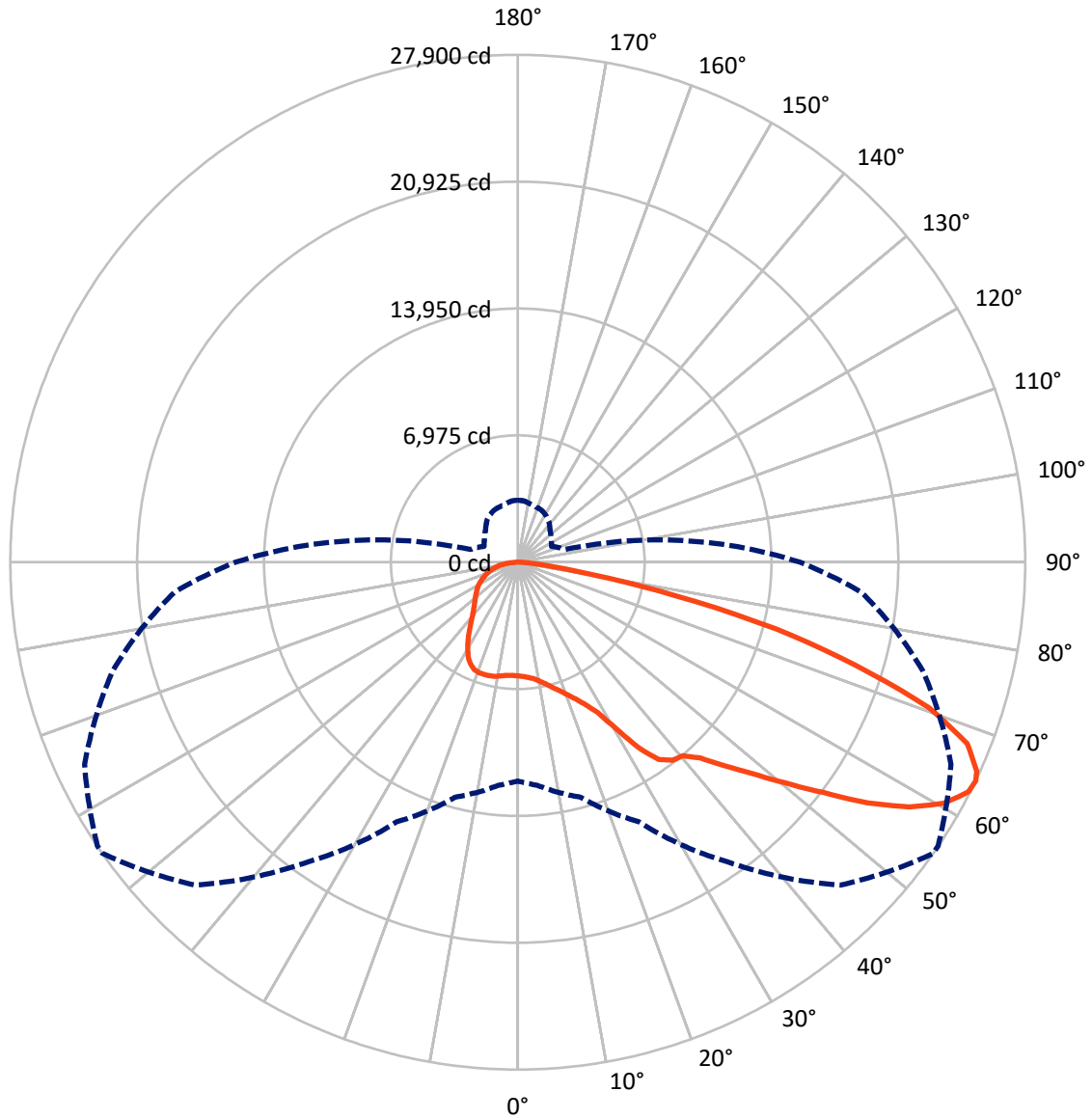
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical



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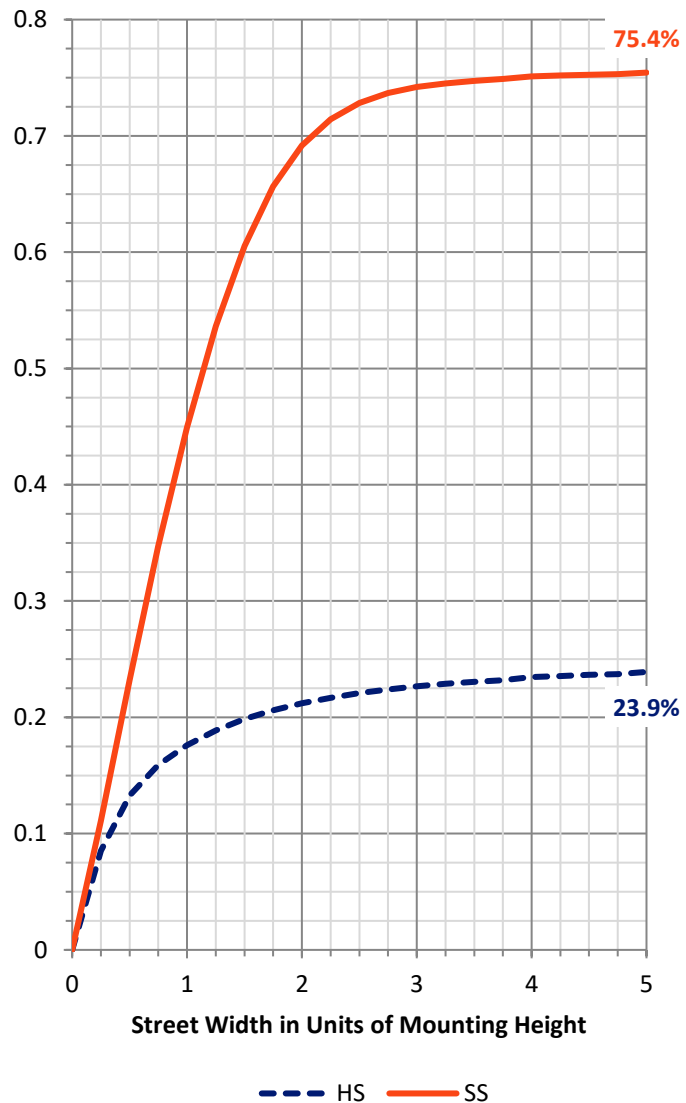
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11316.9	0.0	11316.9
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	35270.1	0.0	35270.1
	% Fixture	75.7	0.0	75.7
Total	Lumens	46587.0	0.0	46587.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	608.0	1.3
10°-20°	1918.5	4.1
20°-30°	3415.4	7.3
30°-40°	5254.9	11.3
40°-50°	7449.3	16.0
50°-60°	10782.7	23.1
60°-70°	11158.9	24.0
70°-80°	5225.7	11.2
80°-90°	773.6	1.7
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°	46587.0	100.0
0°-180°	46587.0	100.0



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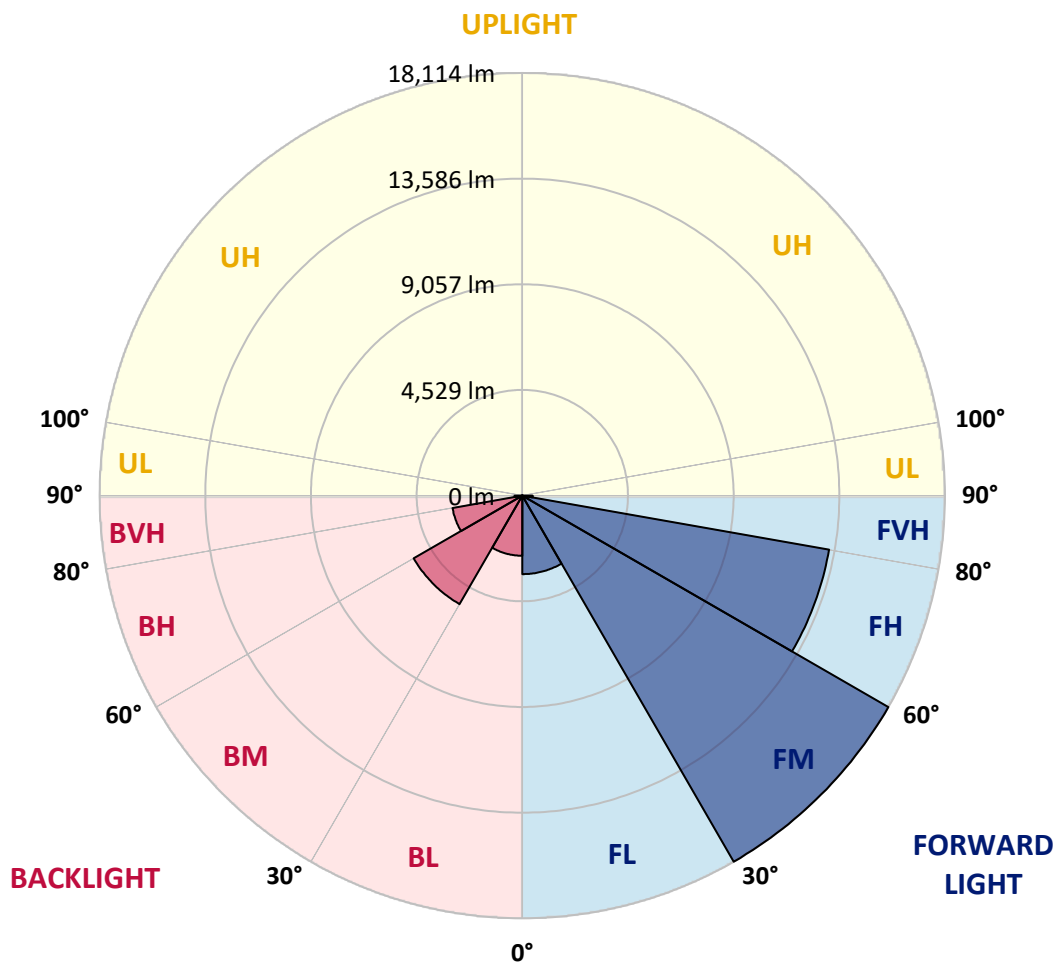
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3364.3	7.2			
FM	(30°-60°)	18114.3	38.9			
FH	(60°-80°)	13348.5	28.7			G5
FVH	(80°-90°)	442.9	1.0			G3/500
BL	(0°-30°)	2577.5	5.5	B4/5000		
BM	(30°-60°)	5372.6	11.5	B4/8500		
BH	(60°-80°)	3036.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	330.7	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6
2.5°	6320.7	6318.1	6325.9	6318.1	6323.3	6305.1	6297.3	6302.5	6294.7	6281.7	6258.4
5°	6398.6	6396.0	6398.6	6388.2	6393.4	6383.0	6364.8	6370.0	6357.0	6328.5	6294.7
7.5°	6531.0	6520.6	6520.6	6518.0	6507.7	6492.1	6479.1	6473.9	6460.9	6424.6	6372.6
10°	6702.4	6702.4	6705.0	6684.2	6697.2	6668.7	6655.7	6653.1	6608.9	6562.2	6489.5
12.5°	6928.3	6941.3	6933.5	6923.1	6918.0	6907.6	6863.4	6873.8	6824.5	6744.0	6655.7
15°	7208.8	7229.6	7216.6	7211.4	7198.4	7159.5	7141.3	7133.5	7068.6	6951.7	6834.9
17.5°	7580.1	7554.2	7543.8	7530.8	7476.3	7447.7	7416.5	7411.4	7354.2	7216.6	7034.8
20°	7904.7	7941.1	7920.3	7907.3	7852.8	7798.3	7774.9	7767.1	7717.8	7567.2	7276.3
22.5°	8291.7	8299.5	8307.3	8276.1	8250.1	8208.6	8167.0	8154.0	8135.9	7980.1	7624.3
25°	8704.6	8735.7	8709.8	8678.6	8647.4	8644.8	8683.8	8678.6	8670.8	8520.2	8086.5
27.5°	9377.2	9405.7	9413.5	9379.7	9260.3	9270.7	9359.0	9387.5	9507.0	9257.7	8681.2
30°	9756.3	9784.9	9849.8	9977.0	10166.6	10332.8	10545.7	10610.6	10724.9	10254.9	9387.5
32.5°	9990.0	10000.4	10117.2	10353.6	10922.3	11542.9	12122.0	12145.4	12218.1	11558.5	10034.2
35°	10358.8	10366.5	10460.0	10719.7	11387.1	12420.6	13316.5	13345.1	13285.4	11963.6	10335.4
37.5°	10813.2	10834.0	10893.7	11109.2	11906.5	13155.5	13812.5	13791.8	13262.0	12285.6	10867.7
40°	11475.4	11475.4	11405.3	11696.1	12454.4	13576.2	13986.5	13950.2	13809.9	13217.9	11677.9
42.5°	12059.7	12049.3	12215.5	12412.8	13140.0	14225.4	14716.2	14776.0	15007.1	14389.0	12599.8
45°	12820.5	12867.3	12960.8	13319.1	14305.9	15334.3	15967.9	16025.0	16352.2	15768.0	13677.5
47.5°	13589.2	13604.8	13898.2	14376.0	15749.8	16837.8	17357.2	17450.7	17749.3	17380.6	14838.3
50°	14134.5	14282.6	14752.6	15505.7	17237.8	18671.2	19076.3	19188.0	19715.1	19136.0	16191.2
52.5°	14711.0	14856.5	15430.4	16578.2	18946.5	20546.1	21044.7	21120.0	21667.9	20912.3	17575.3
55°	15204.4	15339.5	15991.3	17528.6	20307.2	22460.0	23363.7	23275.4	23537.7	22280.8	18642.6
57.5°	15284.9	15394.0	16214.6	18136.3	21330.4	24101.2	25397.0	25448.9	25145.1	23304.0	19523.0
60°	14661.7	14885.0	15827.7	18071.3	21790.0	25243.8	26913.5	26949.9	26087.8	23828.5	19873.5
62.5°	13558.0	13534.7	14674.7	17027.4	21146.0	25503.5	27806.9	27767.9	26456.5	23576.6	19533.4
64°	12033.7	12314.2	13378.9	15744.6	20107.3	25103.6	27900.3	27879.6	26279.9	23052.1	18954.3
65°	11104.0	11088.5	12140.2	14695.5	19073.7	24501.1	27734.1	27705.6	25911.2	22582.0	18505.0
67.5°	8016.4	8052.8	9091.5	11340.4	15505.7	22145.8	26651.3	26544.8	24456.9	21023.9	16796.3
70°	4856.1	4876.8	5692.3	7523.0	11130.0	17902.5	24023.3	24028.5	22231.5	18697.2	14295.5
72.5°	2557.9	2612.4	2939.6	4271.8	6759.5	12560.9	19489.2	19951.4	19086.7	15957.5	11293.6
75°	1423.1	1430.9	1662.0	2106.0	3448.6	7029.6	14648.7	14781.2	15111.0	12843.9	8351.4
77.5°	1085.5	1101.1	1173.8	1360.7	1877.5	3259.0	8865.6	9530.4	10649.6	9055.1	4765.2
80°	880.3	895.9	958.2	1069.9	1249.1	1545.1	4118.6	4476.9	5700.0	4019.9	1859.3
82.5°	685.6	675.2	755.7	828.4	908.9	914.1	1690.5	1869.7	2321.6	1729.5	805.0
85°	509.0	509.0	573.9	558.3	586.9	534.9	745.3	823.2	929.7	734.9	373.9
87.5°	202.6	223.3	376.5	337.6	262.3	210.3	275.3	290.8	322.0	288.2	155.8
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°	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6	6250.6
2.5°	6261.0	6268.7	6250.6	6237.6	6232.4	6224.6	6216.8	6219.4	6229.8	6240.2	6237.6
5°	6292.1	6294.7	6263.6	6248.0	6237.6	6227.2	6227.2	6235.0	6255.8	6271.3	6271.3
7.5°	6370.0	6370.0	6325.9	6297.3	6281.7	6263.6	6258.4	6261.0	6276.5	6297.3	6299.9
10°	6492.1	6481.7	6424.6	6380.4	6351.8	6307.7	6268.7	6248.0	6255.8	6268.7	6268.7
12.5°	6640.1	6611.5	6538.8	6479.1	6409.0	6325.9	6245.4	6203.8	6201.2	6214.2	6209.0
15°	6798.5	6767.3	6666.1	6557.0	6434.9	6312.9	6216.8	6157.1	6110.3	6097.4	6125.9
17.5°	6982.9	6918.0	6777.7	6627.1	6445.3	6286.9	6136.3	6014.3	5931.2	5907.8	5915.6
20°	7206.2	7120.5	6930.9	6694.6	6437.5	6193.4	5959.7	5796.1	5661.1	5619.5	5624.7
22.5°	7515.2	7367.2	7089.3	6728.4	6372.6	6016.9	5692.3	5479.3	5315.7	5250.8	5289.7
25°	7865.8	7704.8	7240.0	6720.6	6203.8	5733.8	5375.4	5097.6	4949.6	4853.5	4874.2
27.5°	8348.8	8063.2	7401.0	6650.5	5962.3	5388.4	4972.9	4710.6	4575.6	4526.3	4549.6
30°	8966.9	8528.0	7575.0	6460.9	5580.6	4952.2	4567.8	4396.4	4315.9	4253.6	4274.4
32.5°	9413.5	8855.2	7613.9	6141.5	5167.7	4554.8	4292.6	4165.3	4077.0	4017.3	4030.3
35°	9732.9	9133.1	7595.7	5749.4	4736.6	4227.6	4074.4	3970.6	3827.7	3697.9	3674.5
37.5°	10161.4	9481.0	7463.3	5320.9	4310.7	4006.9	3897.8	3705.7	3500.5	3326.5	3318.7
40°	10818.4	9888.7	7180.2	4817.1	3947.2	3843.3	3710.9	3461.6	3240.8	3100.6	3090.2
42.5°	11496.2	10265.3	6795.9	4287.4	3648.5	3671.9	3510.9	3264.2	3129.2	3038.3	3027.9
45°	12324.6	10673.0	6380.4	3827.7	3427.8	3510.9	3336.9	3194.1	3113.6	3053.9	3038.3
47.5°	13220.5	11091.1	5913.0	3414.8	3240.8	3362.9	3264.2	3199.3	3155.1	3113.6	3095.4
50°	14186.5	11558.5	5474.1	3082.4	3072.0	3209.7	3256.4	3233.1	3207.1	3194.1	3178.5
52.5°	15246.0	12036.3	5105.4	2848.7	2924.0	3100.6	3259.0	3277.2	3277.2	3269.4	3259.0
55°	15962.7	12368.7	4731.4	2659.2	2773.4	3012.3	3253.8	3323.9	3349.9	3339.5	3329.1
57.5°	16492.5	12550.5	4261.4	2495.6	2646.2	2926.6	3225.3	3329.1	3355.1	3368.1	3362.9
60°	16601.5	12381.7	3645.9	2324.2	2508.5	2802.0	3121.4	3251.2	3285.0	3365.5	3373.3
62.5°	16110.7	11862.3	3033.1	2155.4	2339.7	2612.4	2981.2	3162.9	3230.5	3355.1	3368.1
64°	15508.3	11280.6	2692.9	2048.9	2230.7	2505.9	2911.0	3139.6	3227.9	3394.1	3404.4
65°	15066.8	10857.3	2480.0	1981.4	2160.6	2435.8	2872.1	3147.4	3251.2	3453.8	3469.4
67.5°	13441.2	9400.5	2051.5	1823.0	1994.4	2316.4	2879.9	3212.3	3246.0	3477.2	3474.6
70°	11122.2	7484.1	1719.1	1677.6	1833.4	2220.3	2848.7	3108.4	3111.0	3264.2	3227.9
72.5°	8328.0	5531.2	1490.6	1526.9	1654.2	1991.8	2690.3	2968.2	2924.0	2944.8	2908.4
75°	5720.8	3658.9	1282.8	1365.9	1467.2	1760.7	2467.0	2695.5	2625.4	2599.4	2573.5
77.5°	3053.9	2022.9	1067.3	1207.5	1275.0	1521.7	2152.8	2373.5	2300.8	2199.5	2165.8
80°	1236.1	953.0	859.6	999.8	1038.7	1225.7	1791.8	1929.4	1874.9	1698.3	1641.2
82.5°	620.6	571.3	675.2	786.8	789.4	875.1	1332.2	1462.0	1340.0	1124.4	1075.1
85°	324.6	335.0	464.8	553.1	488.2	472.6	799.8	885.5	812.8	706.3	636.2
87.5°	116.9	135.0	244.1	241.5	171.4	90.9	176.6	85.7	46.7	28.6	36.4
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)