

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: P949531

Luminaire Tested: **GALN-SB4B-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23168 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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



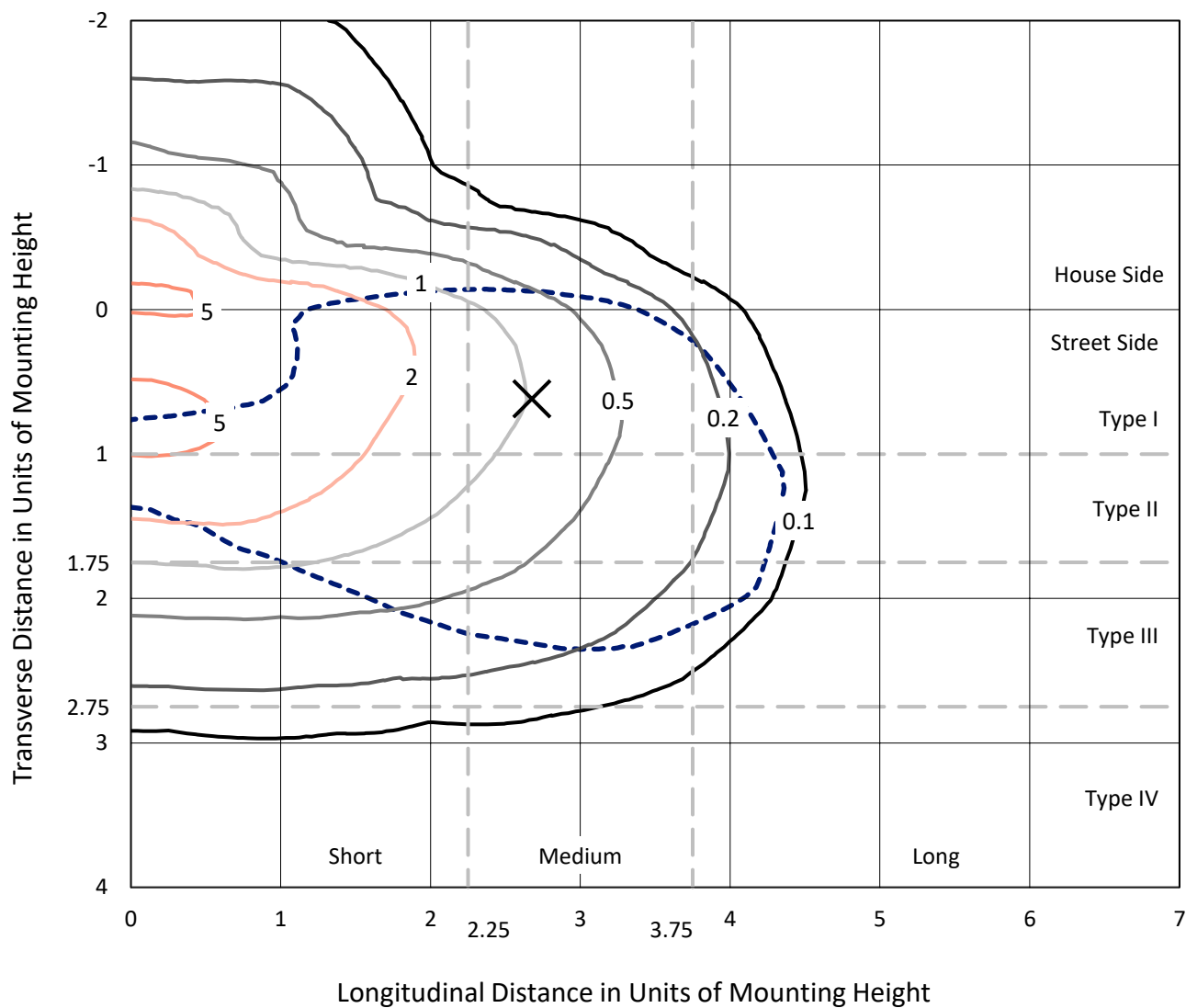
REPORT NUMBER: P949531

CATALOG NUMBER: GALN-SB4B-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

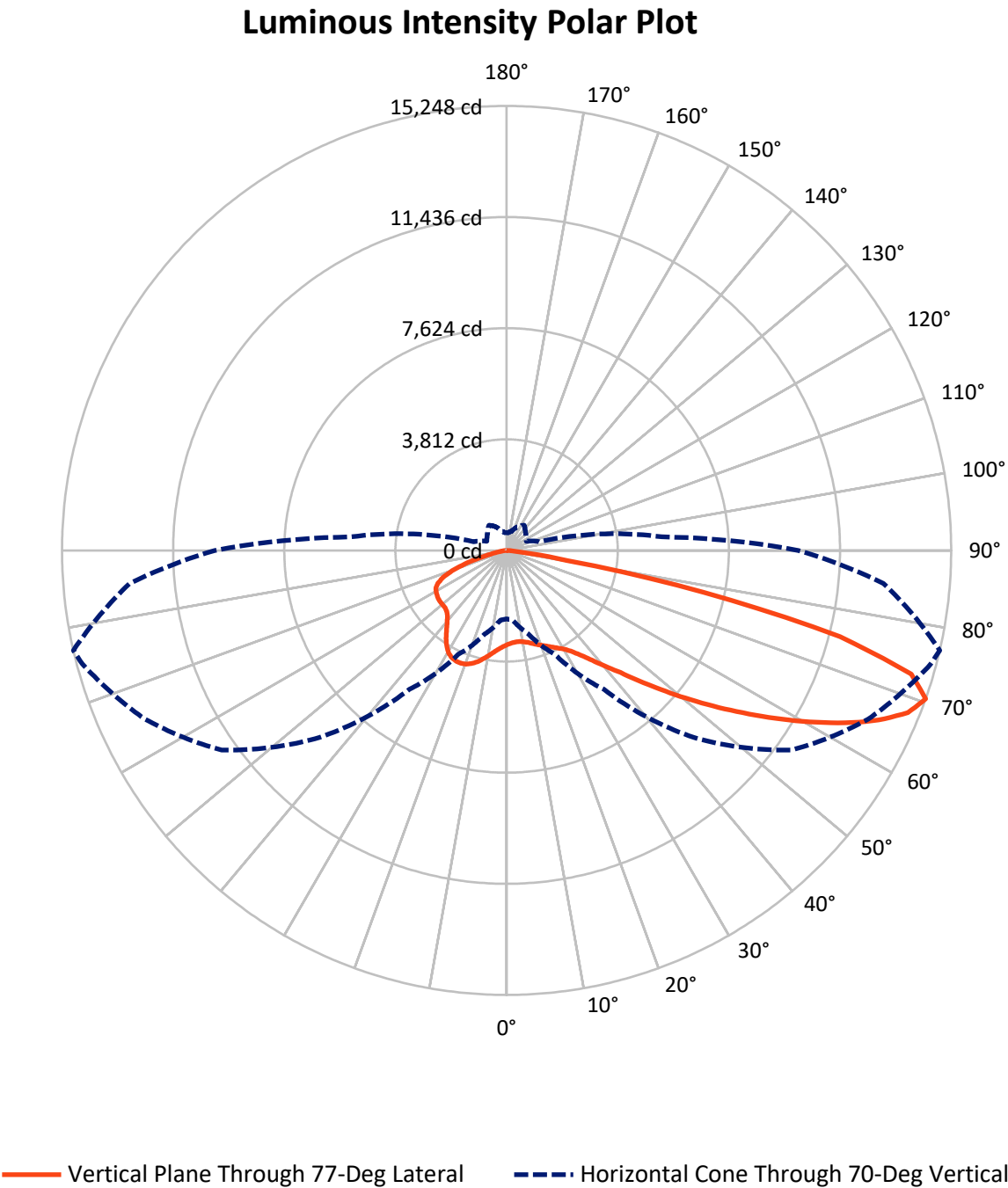
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P949531
CATALOG NUMBER: GALN-SB4B-730-U-T3R



REPORT NUMBER: P949531

CATALOG NUMBER: GALN-SB4B-730-U-T3R

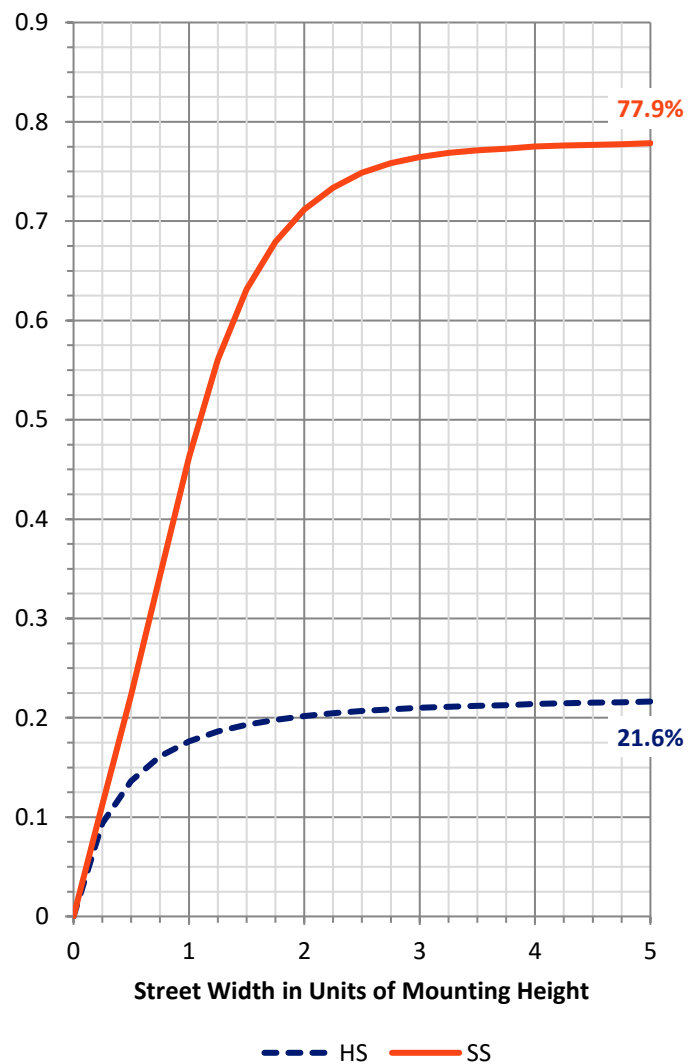
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5073.4	0.0	5073.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	18094.6	0.0	18094.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	23168.0	0.0	23168.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.3
10°-20°	889.7	3.8
20°-30°	1521.5	6.6
30°-40°	2446.7	10.6
40°-50°	3819.9	16.5
50°-60°	5102.4	22.0
60°-70°	5438.4	23.5
70°-80°	3347.9	14.5
80°-90°	293.4	1.3
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°	23168.0	100.0
0°-180°	23168.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949531

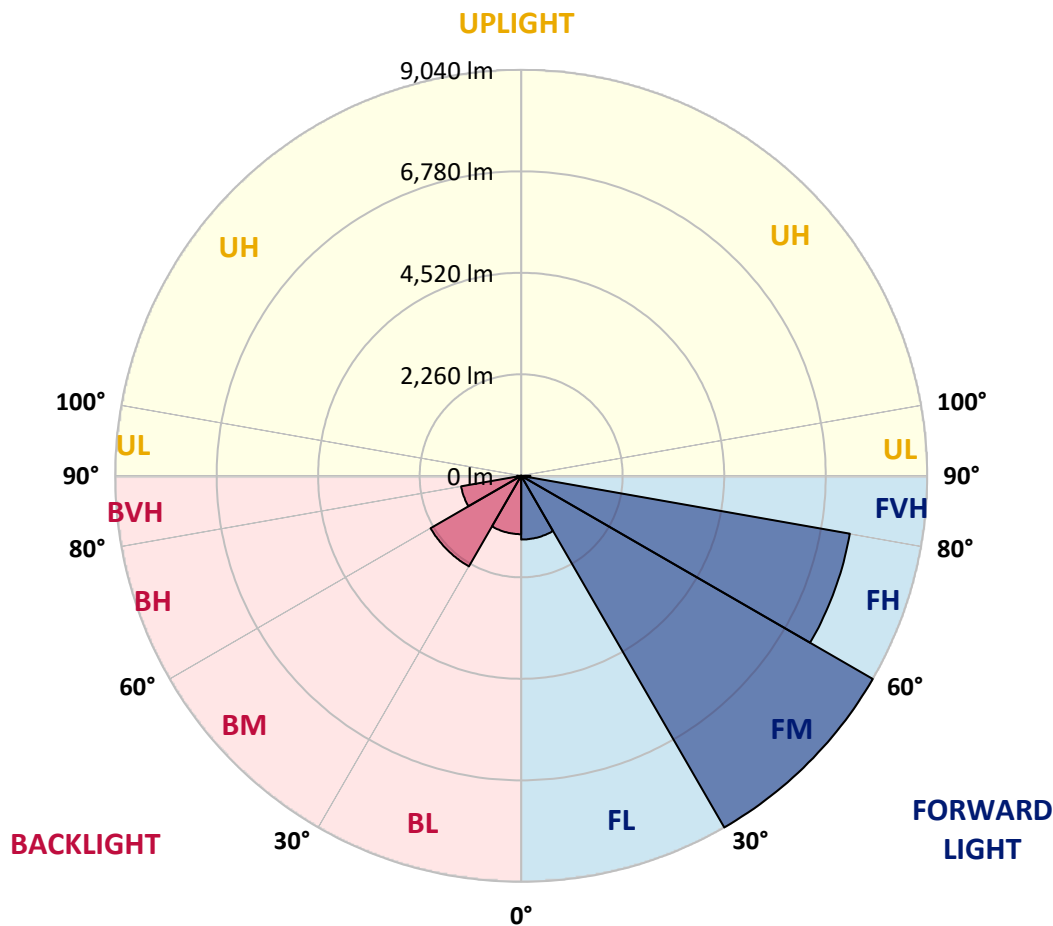
CATALOG NUMBER: GALN-SB4B-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1419.4	6.1			
FM	(30°-60°)	9039.7	39.0			
FH	(60°-80°)	7430.4	32.1			G3/7500
FVH	(80°-90°)	205.1	0.9			G2/225
BL	(0°-30°)	1300.0	5.6	B3/2500		
BM	(30°-60°)	2329.3	10.1	B2/2500		
BH	(60°-80°)	1355.9	5.9	B3/2500		G3/2500
BVH	(80°-90°)	88.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



REPORT NUMBER: P949531

CATALOG NUMBER: GALN-SB4B-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1
2.5°	2979.4	2978.2	2993.7	2998.4	3026.9	3047.0	3085.0	3125.4	3177.6	3183.5	3215.5
5°	2807.4	2807.4	2825.2	2844.1	2880.9	2921.3	2979.4	3049.4	3139.6	3153.8	3233.3
7.5°	2661.4	2670.9	2686.3	2723.1	2765.8	2824.0	2913.0	3012.6	3131.3	3153.8	3282.0
10°	2544.0	2554.6	2573.6	2603.3	2667.4	2748.0	2864.3	2992.5	3151.5	3187.1	3353.2
12.5°	2507.2	2517.8	2528.5	2551.1	2610.4	2705.3	2844.1	3002.0	3200.1	3235.7	3450.5
15°	2592.6	2605.7	2597.3	2591.4	2622.3	2708.9	2853.6	3036.4	3260.6	3311.6	3570.3
17.5°	2789.6	2794.3	2775.3	2719.6	2714.8	2761.1	2898.7	3083.8	3336.6	3392.3	3691.3
20°	3107.6	3099.3	3060.1	2949.7	2886.9	2877.4	2975.9	3155.0	3414.9	3474.2	3821.9
22.5°	3539.5	3530.0	3451.7	3277.2	3137.2	3044.7	3087.4	3247.6	3502.7	3569.1	3948.8
25°	4078.2	4065.1	3950.0	3712.7	3495.6	3266.6	3239.3	3369.8	3610.7	3672.4	4081.7
27.5°	4707.0	4696.3	4571.8	4258.5	3945.3	3570.3	3427.9	3513.4	3723.4	3793.4	4231.2
30°	5383.4	5414.2	5193.5	4856.5	4460.2	3966.6	3681.8	3690.2	3869.3	3932.2	4412.8
32.5°	6178.3	6231.7	5965.9	5538.8	4997.7	4397.3	4002.2	3937.0	4081.7	4133.9	4641.8
35°	6966.2	7026.7	6806.0	6333.8	5710.8	4905.2	4336.8	4220.5	4364.1	4421.1	4945.5
37.5°	7647.3	7728.0	7614.1	7203.5	6473.8	5517.4	4773.5	4554.0	4711.8	4783.0	5353.7
40°	8184.8	8308.2	8299.9	8043.6	7373.2	6260.2	5327.6	4965.7	5143.7	5220.8	5848.5
42.5°	8621.4	8728.2	8820.8	8807.7	8311.7	7103.8	5979.0	5500.8	5636.1	5725.1	6405.0
45°	8922.8	9036.7	9236.1	9450.8	9214.7	8006.8	6725.3	6135.6	6259.0	6393.1	7068.2
47.5°	9192.2	9321.5	9580.2	9920.7	9981.2	8913.3	7542.9	6874.8	6987.6	7126.4	7733.9
50°	9215.9	9327.4	9728.5	10211.4	10525.8	9784.2	8420.9	7704.2	7809.8	7958.2	8447.0
52.5°	8642.8	8818.4	9518.5	10203.1	10776.2	10512.8	9293.0	8566.9	8685.5	8863.5	9185.0
55°	6708.7	6966.2	8902.6	9885.1	10687.2	10983.8	10122.4	9484.1	9635.9	9822.2	9927.8
57.5°	5778.5	5891.2	7067.1	9306.1	10281.4	11106.1	10822.5	10410.7	10655.2	10859.3	10713.3
60°	5193.5	5287.2	5982.6	8405.5	9747.5	10912.7	11363.5	11274.5	11697.0	11940.2	11516.6
62.5°	4567.0	4656.0	5288.4	7018.4	9064.0	10591.1	11705.3	12071.9	12764.8	13030.6	12273.6
65°	3945.3	4021.2	4627.5	5897.1	8195.5	10269.5	11882.1	12761.3	13753.2	14028.5	12902.5
67.5°	3252.3	3315.2	3888.3	4975.2	7139.4	9829.3	11969.9	13303.5	14613.5	14849.6	13213.4
70°	2347.0	2395.6	2987.7	3934.6	5814.1	9072.3	11934.3	13688.0	15059.6	15248.3	12978.4
72.5°	1109.4	1153.3	1848.6	2554.6	4106.6	7598.6	11214.0	13383.0	14606.4	14512.6	11540.3
75°	592.1	630.1	1062.0	1401.3	2169.0	5208.9	9176.7	11528.5	12265.3	11809.7	8528.9
77.5°	401.1	430.7	657.3	841.3	990.8	2472.8	5898.3	7981.9	7679.3	6927.0	4271.6
80°	318.0	348.8	538.7	569.5	479.4	893.5	2437.2	3694.9	2654.3	2122.7	1215.0
82.5°	244.4	278.8	453.3	412.9	261.0	366.6	709.6	1168.7	679.9	517.3	294.3
85°	149.5	186.3	356.0	263.4	147.1	167.3	240.9	325.1	207.6	173.2	105.6
87.5°	75.9	106.8	180.4	96.1	66.4	39.2	64.1	64.1	54.6	47.5	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949531

CATALOG NUMBER: GALN-SB4B-730-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1	3232.1
2.5°	3244.0	3267.7	3308.1	3346.1	3375.7	3404.2	3432.7	3448.1	3452.8	3471.8	3482.5
5°	3282.0	3325.9	3404.2	3477.8	3524.0	3552.5	3572.7	3584.6	3586.9	3592.9	3602.3
7.5°	3352.0	3422.0	3531.2	3604.7	3639.1	3636.8	3628.5	3598.8	3586.9	3576.2	3578.6
10°	3450.5	3543.0	3677.1	3728.1	3706.8	3649.8	3576.2	3489.6	3449.3	3410.1	3398.3
12.5°	3572.7	3690.2	3821.9	3819.5	3713.9	3567.9	3397.1	3264.2	3179.9	3119.4	3105.2
15°	3721.0	3856.3	3957.1	3876.4	3645.1	3382.8	3132.5	2959.2	2883.3	2816.9	2809.7
17.5°	3874.1	4018.8	4065.1	3858.6	3471.8	3108.7	2825.2	2688.7	2614.0	2578.4	2589.0
20°	4023.6	4167.1	4129.2	3756.6	3208.4	2797.9	2545.1	2470.4	2455.0	2463.3	2459.7
22.5°	4181.4	4309.5	4142.2	3559.6	2872.6	2479.9	2341.1	2343.4	2377.8	2402.8	2408.7
25°	4342.8	4429.4	4107.8	3274.9	2511.9	2246.1	2211.7	2249.7	2317.3	2366.0	2379.0
27.5°	4498.2	4536.2	4033.1	2922.5	2202.2	2078.8	2084.8	2163.1	2265.1	2332.7	2349.4
30°	4673.8	4631.1	3889.5	2526.2	1987.5	1935.3	1985.1	2076.5	2178.5	2239.0	2253.2
32.5°	4872.0	4713.0	3661.7	2159.5	1835.6	1820.2	1902.0	1961.4	2006.4	2024.2	2033.7
35°	5118.8	4828.0	3369.8	1902.0	1699.1	1735.9	1814.2	1784.6	1766.8	1757.3	1766.8
37.5°	5439.1	4983.5	3028.1	1734.7	1588.8	1675.4	1707.4	1614.9	1544.9	1510.5	1518.8
40°	5824.7	5211.3	2699.4	1605.4	1518.8	1623.2	1567.4	1455.9	1366.9	1318.3	1321.8
42.5°	6253.1	5449.8	2422.9	1508.1	1479.6	1580.5	1464.2	1331.3	1187.7	1172.3	1187.7
45°	6702.8	5695.4	2234.3	1433.3	1460.6	1543.7	1404.9	1190.1	1088.1	1150.9	1184.2
47.5°	7152.5	5920.9	2120.4	1377.6	1451.1	1502.2	1352.7	1111.8	1039.4	1130.8	1173.5
50°	7653.2	6122.6	2069.3	1337.2	1440.5	1485.6	1274.3	1091.6	988.4	1048.9	1094.0
52.5°	8150.4	6279.2	2031.4	1296.9	1425.0	1472.5	1236.4	1067.9	926.7	930.3	955.2
55°	8646.4	6381.2	1989.8	1243.5	1390.6	1444.0	1232.8	1041.8	880.4	863.8	875.7
57.5°	9175.5	6439.4	1938.8	1184.2	1331.3	1371.6	1229.3	1021.6	866.2	838.9	842.4
60°	9714.2	6524.8	1872.4	1111.8	1251.8	1285.0	1221.0	1014.5	857.9	811.6	815.2
62.5°	10197.2	6554.5	1792.9	1043.0	1149.8	1199.6	1203.2	1008.6	835.3	755.8	755.8
65°	10514.0	6426.3	1654.0	964.7	1039.4	1111.8	1168.7	988.4	795.0	715.5	715.5
67.5°	10500.9	6060.9	1436.9	863.8	932.6	1014.5	1118.9	954.0	746.3	665.7	669.2
70°	10012.1	5339.5	1161.6	746.3	815.2	910.1	1054.8	903.0	688.2	611.1	618.2
72.5°	8587.0	4179.0	843.6	608.7	678.7	802.1	971.8	841.3	628.9	562.4	558.9
75°	6134.4	2644.8	571.9	467.5	528.0	679.9	868.6	768.9	574.3	564.8	532.8
77.5°	3133.7	1263.7	378.5	341.7	367.8	536.3	729.7	687.0	582.6	466.3	415.3
80°	1019.2	466.3	238.5	232.6	244.4	357.1	564.8	563.6	441.4	316.8	280.0
82.5°	325.1	200.5	155.4	149.5	143.6	224.3	393.9	446.1	297.8	200.5	199.3
85°	129.3	119.8	91.4	84.2	60.5	105.6	206.5	296.6	221.9	144.8	148.3
87.5°	47.5	47.5	24.9	17.8	13.1	35.6	55.8	89.0	127.0	74.8	73.6
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)