

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: P940934

Luminaire Tested: **GALN-SB4B-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15286 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

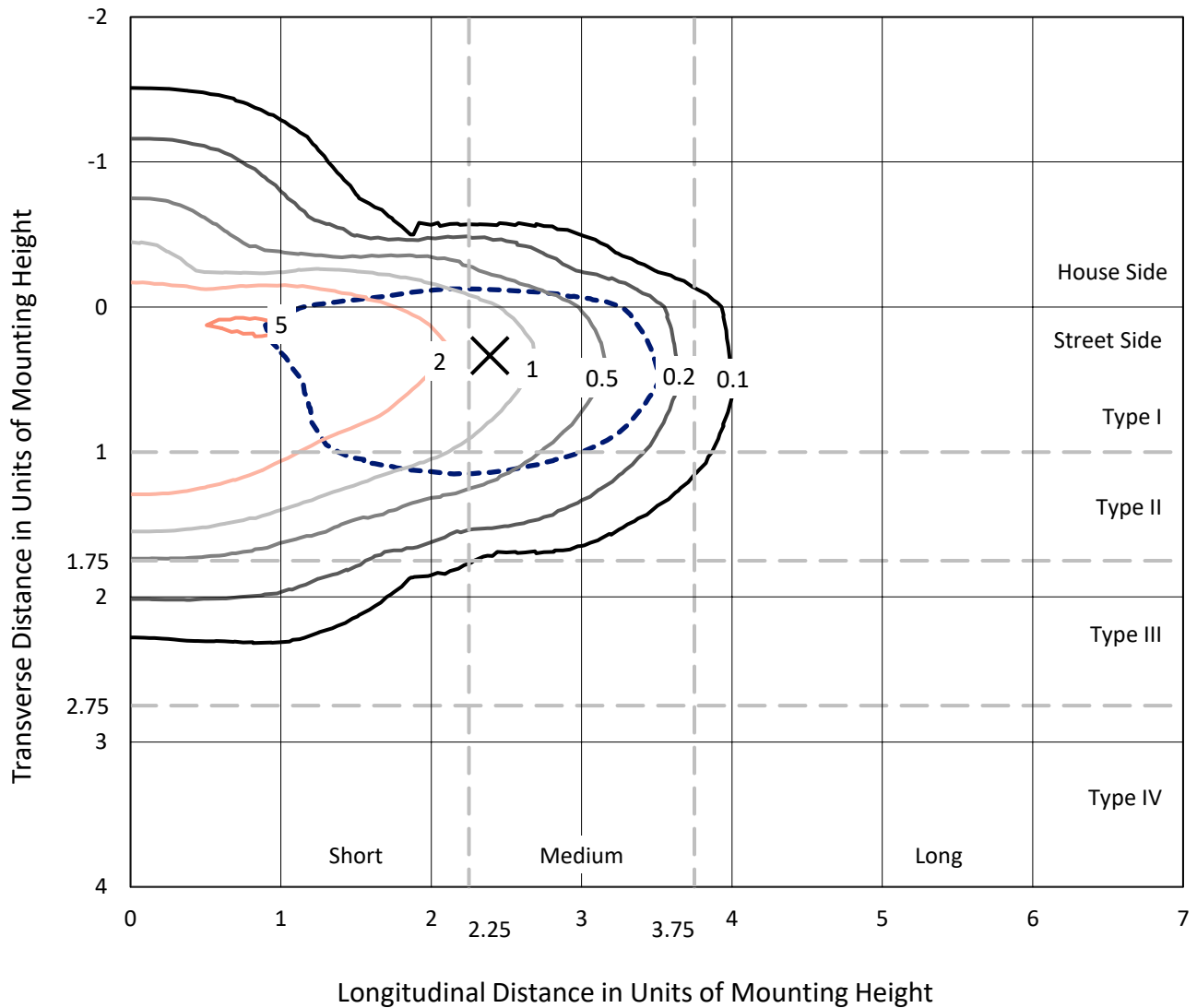
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

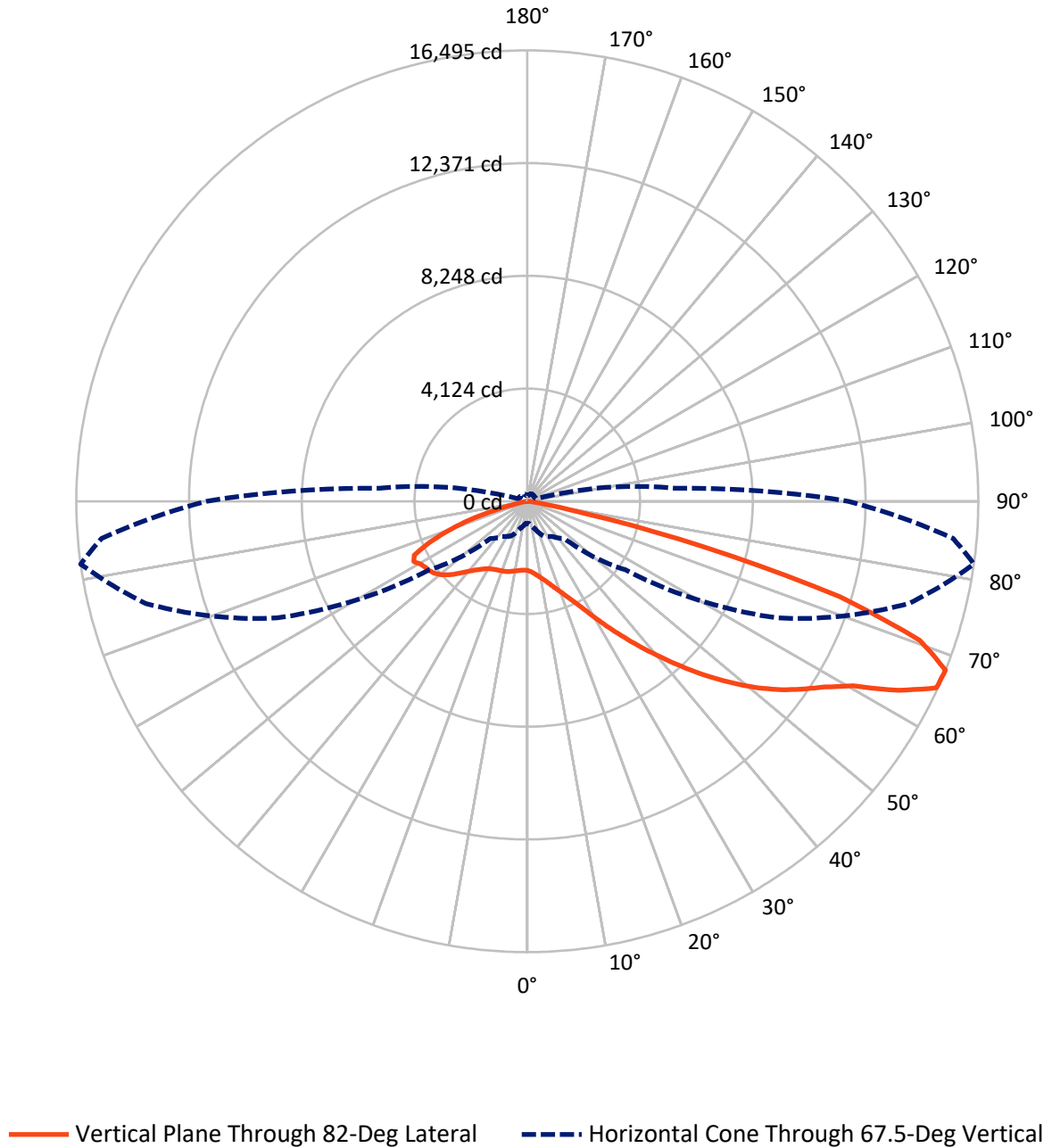
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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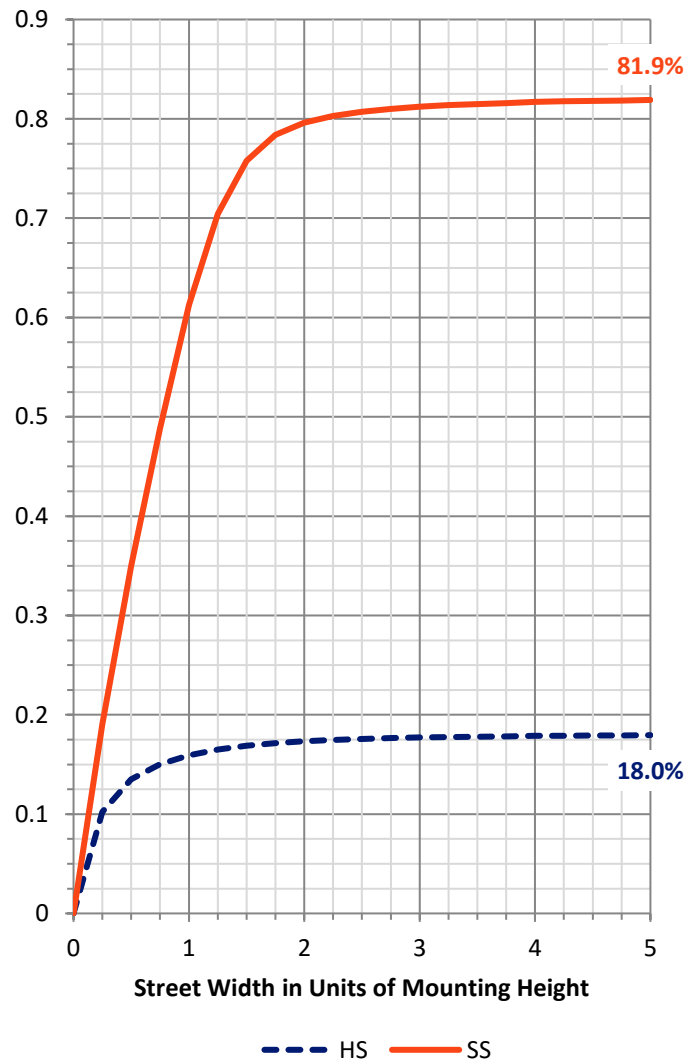
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2768.9	0.0	2768.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	12517.1	0.0	12517.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15286.0	0.0	15286.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	1.5
10°-20°	586.3	3.8
20°-30°	939.0	6.1
30°-40°	1660.5	10.9
40°-50°	2909.4	19.0
50°-60°	3880.3	25.4
60°-70°	3612.4	23.6
70°-80°	1386.4	9.1
80°-90°	86.1	0.6
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°	15286.0	100.0
0°-180°	15286.0	100.0



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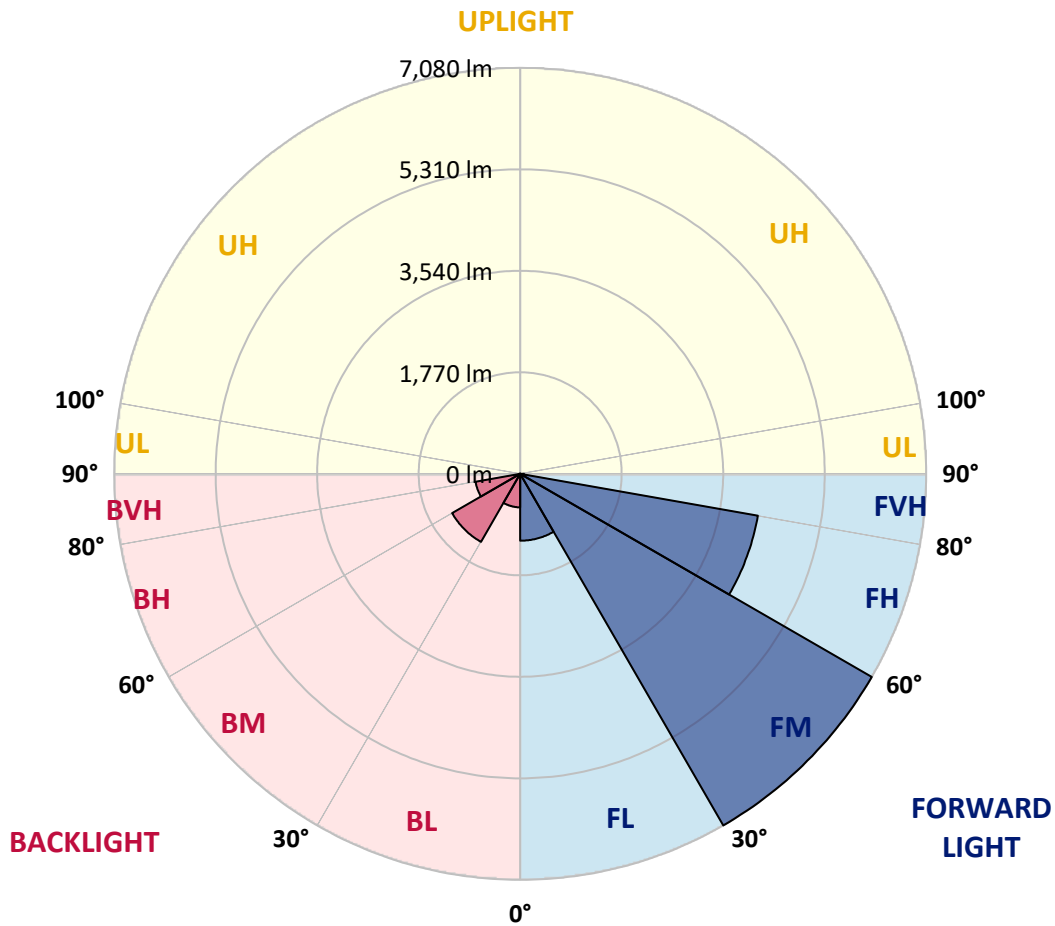
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1166.2	7.6			
FM (30°-60°)	7079.8	46.3			
FH (60°-80°)	4208.5	27.5			G2/5000
FVH (80°-90°)	62.6	0.4			G1/100
BL (0°-30°)	584.8	3.8	B2/1000		
BM (30°-60°)	1370.3	9.0	B2/2500		
BH (60°-80°)	790.3	5.2	B2/1000		G2/1000
BVH (80°-90°)	23.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4
2.5°	2676.5	2692.0	2683.1	2678.7	2671.0	2660.0	2651.2	2623.7	2595.1	2576.4	2569.8
5°	2730.5	2745.9	2744.8	2749.2	2754.7	2758.0	2755.8	2725.0	2684.2	2652.3	2633.6
7.5°	2684.2	2701.9	2716.2	2738.2	2776.7	2817.4	2837.2	2830.6	2788.8	2744.8	2721.7
10°	2553.3	2572.0	2606.1	2657.8	2739.3	2827.3	2901.1	2935.2	2908.8	2860.3	2828.4
12.5°	2313.4	2332.1	2399.2	2511.5	2647.9	2800.9	2941.8	3033.1	3039.7	2991.3	2953.9
15°	2043.7	2062.4	2134.0	2274.8	2482.8	2728.3	2963.8	3136.6	3194.9	3153.1	3108.0
17.5°	1876.4	1893.0	1946.9	2060.2	2277.0	2583.0	2956.1	3246.6	3379.8	3346.8	3292.9
20°	1825.8	1840.1	1865.4	1944.7	2125.2	2432.2	2905.5	3350.1	3579.0	3560.3	3499.8
22.5°	1879.7	1893.0	1900.7	1935.9	2049.2	2333.2	2841.6	3455.7	3810.1	3812.3	3738.6
25°	2004.1	2017.3	2008.5	2030.5	2080.0	2302.4	2817.4	3580.1	4100.7	4124.9	4041.2
27.5°	2208.8	2209.9	2189.0	2187.9	2195.6	2348.6	2842.7	3713.3	4467.1	4512.3	4408.8
30°	2619.3	2602.8	2522.5	2435.5	2395.9	2487.3	2913.2	3870.6	4899.7	4980.0	4850.1
32.5°	3252.1	3227.9	3080.4	2872.4	2663.3	2710.7	3039.7	4050.0	5370.7	5516.0	5357.5
35°	3938.9	3932.3	3778.2	3468.9	3103.6	3028.7	3245.5	4285.6	5884.7	6115.8	5927.6
37.5°	4577.2	4573.9	4485.9	4121.6	3676.9	3472.2	3575.7	4593.7	6434.9	6769.5	6547.2
40°	5160.5	5170.4	5082.4	4756.6	4308.7	4041.2	4024.7	4974.5	7046.8	7481.6	7217.4
42.5°	5664.5	5675.6	5586.4	5345.4	4932.7	4670.7	4576.1	5441.1	7644.4	8246.4	7933.9
45°	6006.8	6075.1	6061.8	5869.3	5573.2	5301.4	5238.6	6026.6	8325.7	9057.6	8691.1
47.5°	6103.7	6166.4	6265.4	6291.9	6111.4	5843.9	5918.8	6732.1	9014.6	9869.8	9452.7
50°	5864.8	5923.2	6129.0	6403.0	6528.5	6445.9	6580.2	7488.2	9720.1	10679.8	10199.9
52.5°	5393.8	5453.2	5713.0	6146.6	6658.3	6918.1	7243.8	8233.2	10403.5	11446.9	10907.6
55°	4712.6	4775.3	5108.8	5599.6	6410.7	7112.9	7797.4	8977.2	11029.7	12136.9	11545.9
57.5°	3785.9	3832.1	4178.8	4865.5	5787.8	6919.2	8205.7	9789.4	11619.6	12814.8	12178.7
60°	2467.4	2508.2	2911.0	3676.9	4755.5	6272.1	8287.2	10695.2	12403.2	13696.4	13031.7
62.5°	1640.9	1668.4	1907.3	2469.6	3349.0	5029.5	7810.6	11418.2	13552.2	15230.6	14494.3
65°	1125.9	1153.4	1392.2	1784.0	2163.7	3327.0	6440.4	11322.5	14593.3	16448.9	15578.3
67.5°	803.4	826.5	1029.0	1398.8	1566.1	1932.6	4365.9	10098.7	14443.7	16495.1	15636.7
70°	575.6	588.8	756.1	1089.5	1244.7	1161.1	2427.8	7723.7	12646.5	15231.7	14445.9
72.5°	402.8	407.2	525.0	829.8	1002.6	847.4	1155.6	5149.5	9564.9	11955.3	11199.2
75°	272.9	278.4	353.3	608.6	804.5	647.1	611.9	2761.3	5615.0	6617.6	5932.0
77.5°	167.3	169.5	227.8	416.0	602.0	493.0	394.0	1169.9	2172.5	2132.9	1818.1
80°	94.6	94.6	145.3	258.6	410.5	318.1	276.2	497.5	687.8	604.2	532.7
82.5°	52.8	53.9	105.7	160.7	271.8	188.2	151.9	230.0	297.1	263.0	228.9
85°	22.0	24.2	64.9	75.9	129.9	93.5	61.6	96.8	110.1	97.9	71.5
87.5°	2.2	3.3	19.8	14.3	15.4	18.7	8.8	18.7	15.4	15.4	11.0
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°	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4	2532.4
2.5°	2548.9	2532.4	2490.6	2442.1	2378.3	2347.5	2305.7	2277.0	2252.8	2255.0	2233.0
5°	2598.4	2556.6	2463.0	2346.4	2201.1	2097.7	1987.6	1911.7	1850.0	1836.8	1807.1
7.5°	2666.6	2600.6	2436.6	2226.4	1981.0	1795.0	1628.8	1522.1	1446.1	1421.9	1397.7
10°	2754.7	2658.9	2402.5	2075.6	1722.4	1485.7	1307.5	1223.8	1172.1	1154.5	1141.3
12.5°	2857.0	2726.1	2357.4	1891.9	1456.0	1228.2	1114.9	1073.0	1056.5	1051.0	1047.7
15°	2985.8	2809.7	2289.2	1673.9	1230.4	1070.8	1022.4	1016.9	1019.1	1016.9	1015.8
17.5°	3138.8	2901.1	2178.0	1449.4	1078.5	990.5	972.9	977.3	982.8	981.7	979.5
20°	3306.1	2991.3	2036.0	1250.2	975.1	933.3	923.4	927.8	932.2	930.0	928.9
22.5°	3496.5	3088.2	1878.6	1095.1	905.8	880.4	869.4	870.5	870.5	866.1	863.9
25°	3724.3	3194.9	1713.6	985.0	852.9	833.1	819.9	815.5	808.9	795.7	793.5
27.5°	3996.1	3308.3	1555.1	908.0	811.1	792.4	777.0	766.0	749.5	727.5	725.3
30°	4302.1	3445.8	1420.8	859.5	778.1	759.4	741.8	725.3	701.1	673.5	671.3
32.5°	4661.9	3593.3	1322.9	827.6	748.4	728.6	707.7	687.8	661.4	633.9	635.0
35°	5091.2	3771.6	1265.6	805.6	725.3	698.9	675.7	653.7	633.9	609.7	607.5
37.5°	5556.7	3960.9	1248.0	794.6	709.9	669.1	642.7	627.3	625.1	610.8	609.7
40°	6066.2	4185.4	1261.2	788.0	693.3	640.5	611.9	608.6	614.1	588.8	589.9
42.5°	6605.5	4451.7	1283.2	780.3	670.2	611.9	584.4	584.4	580.0	544.8	544.8
45°	7188.8	4758.8	1305.3	761.6	642.7	583.3	562.4	554.7	536.0	501.9	500.8
47.5°	7776.5	5071.3	1321.8	727.5	609.7	559.1	540.4	522.8	495.2	464.4	463.3
50°	8334.5	5352.0	1304.2	676.8	572.3	536.0	516.2	491.9	462.2	441.3	438.0
52.5°	8833.0	5595.2	1229.3	617.4	532.7	511.8	494.1	468.8	444.6	422.6	420.4
55°	9266.7	5792.2	1097.3	561.3	497.5	490.8	473.2	441.3	408.3	389.6	387.4
57.5°	9682.7	5941.9	932.2	515.1	465.5	467.7	441.3	412.7	381.9	362.1	359.9
60°	10236.2	6142.2	764.9	472.1	431.4	438.0	409.4	388.5	350.0	324.7	321.4
62.5°	11121.1	6453.6	607.5	419.3	391.8	394.0	381.9	356.6	310.4	280.6	278.4
65°	11823.2	6339.2	478.7	362.1	346.7	350.0	350.0	322.5	272.9	238.8	235.5
67.5°	11744.0	5427.9	381.9	306.0	303.8	306.0	313.7	290.5	242.1	214.6	210.2
70°	10818.4	4317.5	306.0	254.2	264.1	258.6	280.6	265.2	217.9	190.4	187.1
72.5°	8827.5	3110.2	233.3	210.2	202.5	211.3	253.1	238.8	181.6	150.8	147.5
75°	5158.3	1659.6	173.9	166.2	146.4	176.1	224.5	203.6	138.7	111.2	107.9
77.5°	1679.4	578.9	127.7	122.2	109.0	142.0	191.5	171.7	113.4	88.0	84.7
80°	450.1	175.0	86.9	80.3	70.4	105.7	151.9	136.5	81.4	57.2	56.1
82.5°	180.5	73.7	50.6	45.1	38.5	72.6	120.0	110.1	60.5	36.3	36.3
85°	58.3	24.2	18.7	14.3	17.6	45.1	71.5	74.8	42.9	18.7	14.3
87.5°	7.7	3.3	3.3	4.4	3.3	7.7	22.0	20.9	12.1	2.2	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)