

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: P949507

Luminaire Tested: **GALN-SB4B-727-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949507
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
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-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15998 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
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

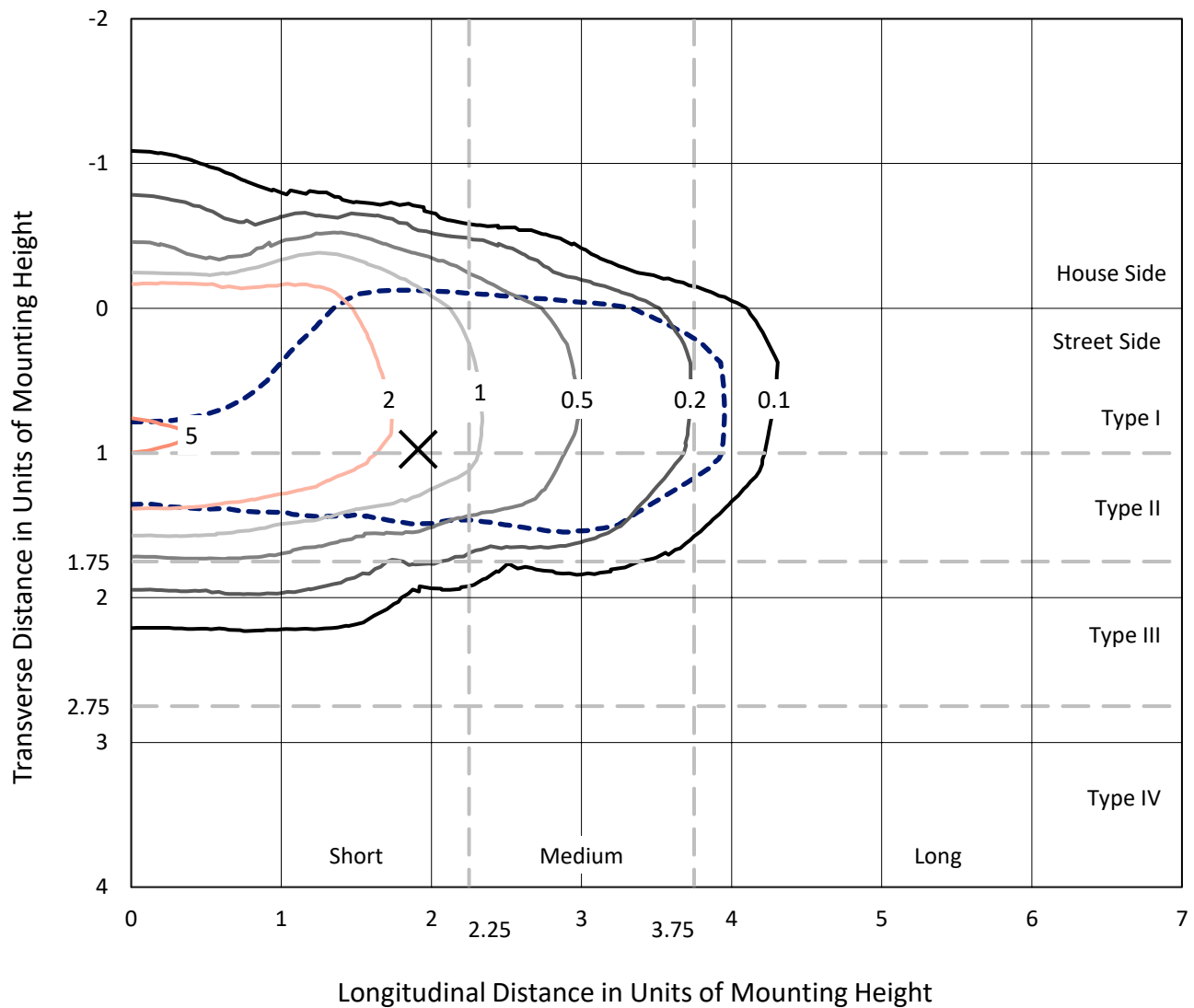


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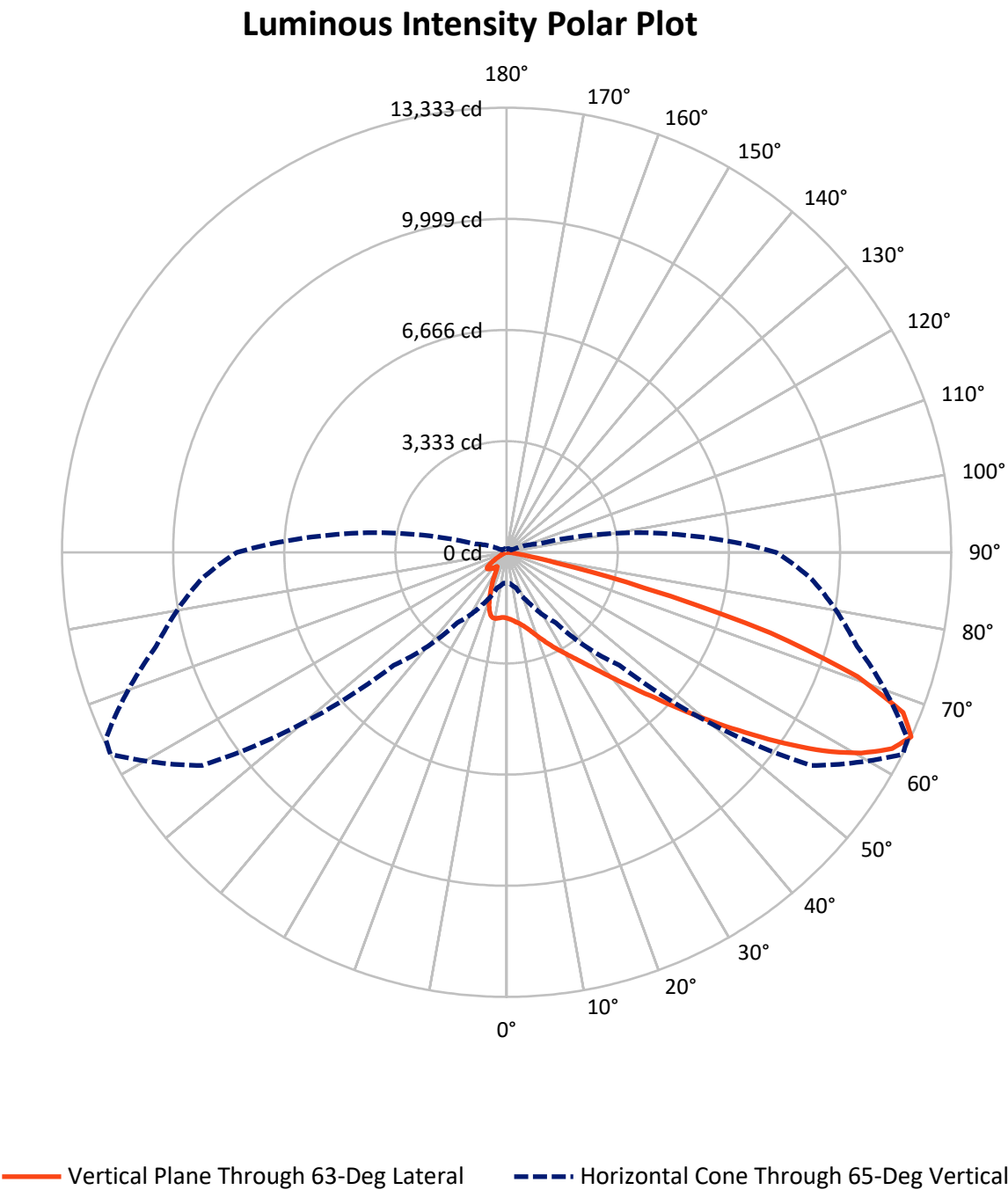
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



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

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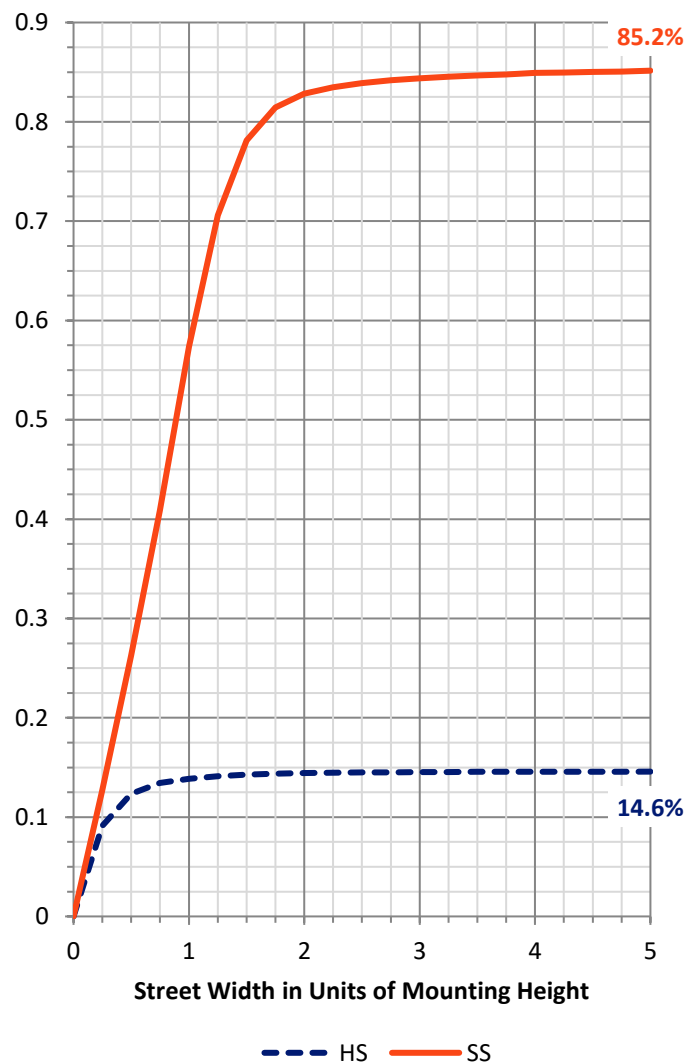
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2351.6	0.0	2351.6
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13646.4	0.0	13646.4
	% Fixture	85.3	0.0	85.3
Total	Lumens	15998.0	0.0	15998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	1.2
10°-20°	516.2	3.2
20°-30°	898.8	5.6
30°-40°	1620.0	10.1
40°-50°	3212.9	20.1
50°-60°	4376.5	27.4
60°-70°	3493.3	21.8
70°-80°	1580.8	9.9
80°-90°	113.6	0.7
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°	15998.0	100.0
0°-180°	15998.0	100.0

Coefficient of Utilization



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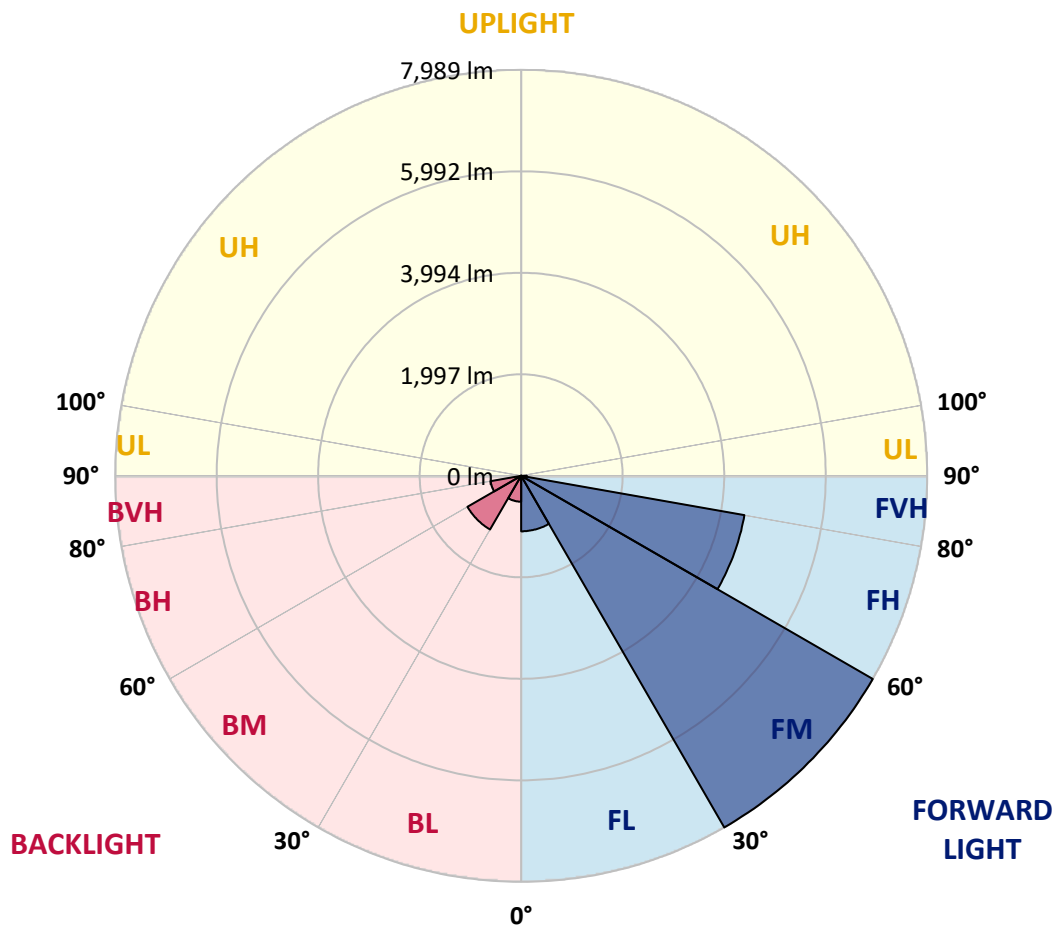
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1092.1	6.8			
FM	(30°-60°)	7989.0	49.9			
FH	(60°-80°)	4460.2	27.9			G2/5000
FVH	(80°-90°)	105.2	0.7			G2/225
BL	(0°-30°)	508.9	3.2	B2/1000		
BM	(30°-60°)	1220.3	7.6	B2/2500		
BH	(60°-80°)	613.9	3.8	B2/1000		G2/1000
BVH	(80°-90°)	8.4	0.1			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5
2.5°	2020.7	2015.2	2022.9	2019.6	2017.4	2013.0	2010.8	2008.6	2004.2	2000.9	1987.7
5°	2026.2	2022.9	2030.6	2037.2	2043.8	2050.4	2053.7	2058.1	2053.7	2044.9	2031.7
7.5°	1980.0	1977.8	1994.3	2014.1	2043.8	2069.1	2096.6	2112.0	2113.1	2109.8	2095.5
10°	1976.7	1971.2	1987.7	2011.9	2050.4	2095.5	2143.9	2177.0	2181.4	2195.7	2180.3
12.5°	2028.4	2022.9	2046.0	2072.4	2112.0	2159.4	2218.8	2265.0	2271.6	2291.4	2280.4
15°	2115.3	2107.6	2134.0	2168.2	2218.8	2272.7	2335.4	2377.3	2382.8	2407.0	2387.2
17.5°	2216.6	2208.9	2239.7	2276.0	2331.0	2404.8	2477.4	2523.6	2530.3	2545.7	2509.3
20°	2346.5	2336.5	2360.8	2393.8	2452.1	2540.2	2627.1	2693.1	2692.0	2692.0	2632.6
22.5°	2497.2	2481.8	2502.7	2529.2	2584.2	2690.9	2806.5	2884.6	2884.6	2853.8	2755.9
25°	2659.0	2643.6	2666.7	2690.9	2739.4	2860.4	2995.8	3092.7	3097.1	3044.2	2887.9
27.5°	2861.5	2841.7	2859.3	2887.9	2916.6	3039.8	3200.5	3312.8	3315.0	3233.5	3013.4
30°	3251.1	3195.0	3140.0	3109.2	3122.4	3244.5	3416.2	3540.6	3551.6	3439.3	3149.9
32.5°	3964.3	3953.3	3759.6	3506.5	3374.4	3464.7	3657.3	3806.9	3813.5	3669.4	3327.1
35°	5072.6	5059.4	4747.9	4265.9	3835.6	3759.6	3950.0	4127.2	4122.8	3959.9	3557.1
37.5°	6395.5	6383.4	5972.9	5327.9	4631.3	4205.3	4327.5	4513.5	4541.0	4327.5	3854.3
40°	7525.8	7480.7	7221.0	6599.1	5687.8	4944.9	4864.6	4987.9	5016.5	4763.3	4231.8
42.5°	8382.1	8343.6	8211.5	7823.0	6966.7	6038.9	5497.4	5544.8	5576.7	5272.9	4665.4
45°	8825.6	8816.8	8869.6	8833.3	8269.8	7381.6	6402.1	6205.1	6217.2	5837.5	5157.4
47.5°	8888.4	8883.9	9125.0	9466.2	9390.2	8896.1	7563.2	7028.4	6985.4	6474.8	5692.2
50°	8518.6	8509.7	8972.0	9611.4	10138.6	10168.3	8881.7	7956.2	7861.5	7134.0	6250.2
52.5°	7337.6	7335.4	8094.8	9159.1	10401.7	11282.1	10184.8	8975.3	8816.8	7831.8	6840.2
55°	5646.0	5686.7	6557.3	7815.3	9921.8	11818.1	11354.8	10106.7	9863.5	8534.0	7383.8
57.5°	3999.5	4059.0	4919.6	6040.0	8433.8	11501.1	12146.1	11240.3	10978.4	9233.9	7935.2
60°	2148.3	2201.2	3062.9	4400.2	6274.5	10319.1	12563.2	12224.2	11976.6	9898.7	8432.7
62.5°	1280.0	1297.6	1654.2	2840.6	4243.9	7883.5	12386.0	12973.7	12770.1	10456.7	8865.2
65°	919.0	922.3	1101.7	1734.5	2576.5	4789.8	11143.5	13332.5	13269.8	10877.1	9185.5
67.5°	773.7	771.5	846.4	1152.3	1755.4	2399.3	8540.6	12825.2	13091.5	11143.5	9367.1
70°	663.7	667.0	755.0	844.2	1319.6	1358.1	4246.1	11166.6	11734.5	11213.9	9356.1
72.5°	494.2	505.2	586.6	769.3	996.0	934.4	1466.0	8279.7	9306.6	10565.6	8870.7
75°	348.9	354.4	412.7	647.1	742.9	680.2	748.4	4280.2	5596.5	8100.3	7260.6
77.5°	268.5	278.4	312.6	452.3	731.9	477.7	457.8	1481.4	2276.0	4893.2	4978.0
80°	145.3	162.9	225.6	326.9	514.0	337.9	226.7	589.9	771.5	2288.1	1919.4
82.5°	74.8	83.6	157.4	235.5	292.8	295.0	112.3	245.4	318.1	706.6	263.0
85°	29.7	36.3	105.7	129.9	150.8	145.3	50.6	99.1	114.5	195.9	80.3
87.5°	6.6	11.0	38.5	29.7	28.6	30.8	12.1	23.1	22.0	23.1	14.3
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°	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5	1974.5
2.5°	1986.6	1982.2	1970.1	1956.8	1941.4	1932.6	1927.1	1926.0	1918.3	1912.8	1918.3
5°	2019.6	2015.2	1992.1	1964.6	1934.8	1911.7	1889.7	1869.9	1841.3	1835.8	1833.6
7.5°	2085.6	2073.5	2036.1	1998.7	1942.5	1875.4	1794.0	1700.4	1616.8	1591.5	1579.3
10°	2167.1	2150.5	2103.2	2037.2	1912.8	1730.1	1533.1	1350.4	1205.1	1164.4	1149.0
12.5°	2259.5	2245.2	2182.5	2060.3	1788.5	1457.2	1155.6	928.9	788.0	752.8	742.9
15°	2369.6	2348.7	2261.7	2025.1	1566.1	1107.2	793.5	659.3	608.6	602.0	595.4
17.5°	2486.2	2452.1	2332.1	1898.5	1266.8	786.9	613.0	574.5	552.5	545.9	542.6
20°	2593.0	2549.0	2374.0	1707.0	946.5	613.0	549.2	523.9	504.1	496.4	492.0
22.5°	2699.7	2637.0	2374.0	1446.2	709.9	543.7	504.1	481.0	457.8	447.9	442.4
25°	2810.9	2727.3	2332.1	1155.6	571.2	498.6	461.1	435.8	416.0	403.9	399.5
27.5°	2918.8	2803.2	2236.4	880.5	508.5	458.9	421.5	397.3	378.6	369.8	369.8
30°	3021.1	2878.0	2102.1	668.1	467.8	420.4	385.2	364.3	345.6	336.8	337.9
32.5°	3159.8	2972.7	1959.0	548.1	432.5	384.1	352.2	332.4	315.9	309.3	309.3
35°	3352.4	3112.5	1835.8	538.2	402.8	354.4	322.5	303.8	287.3	281.8	281.8
37.5°	3625.3	3338.1	1770.8	604.2	378.6	328.0	298.3	278.4	263.0	258.6	257.5
40°	3962.1	3644.0	1806.1	670.3	362.1	304.9	276.2	256.4	243.2	237.7	236.6
42.5°	4361.6	4021.5	2000.9	720.9	351.1	285.1	255.3	233.3	224.5	222.3	222.3
45°	4820.6	4436.5	2299.1	774.8	333.5	266.3	234.4	217.9	211.3	210.2	209.1
47.5°	5342.3	4892.1	2644.7	842.0	315.9	248.7	217.9	206.9	201.4	199.2	199.2
50°	5859.5	5351.1	3000.2	879.4	301.6	232.2	204.7	195.9	191.5	190.4	190.4
52.5°	6401.0	5823.2	3287.5	844.2	289.5	219.0	193.7	187.1	182.7	181.6	181.6
55°	6917.2	6205.1	3337.0	716.5	265.2	205.8	181.6	178.3	172.8	172.8	171.7
57.5°	7361.8	6396.6	2987.0	526.1	241.0	186.0	169.5	166.2	161.8	160.7	159.6
60°	7770.2	6341.6	2305.7	354.4	214.6	166.2	154.1	151.9	147.5	142.0	140.9
62.5°	8000.2	6099.5	1577.1	231.1	188.2	145.3	136.5	135.4	125.5	114.5	112.3
65°	8087.1	5602.0	983.9	168.4	157.4	124.4	117.8	115.6	101.3	89.1	88.0
67.5°	8011.2	4783.2	496.4	133.2	124.4	103.5	96.9	96.9	86.9	75.9	74.8
70°	7707.4	3585.7	209.1	106.8	95.8	79.2	79.2	83.6	73.7	61.6	60.5
72.5°	7048.2	2412.5	111.2	81.4	71.5	56.1	64.9	68.2	58.3	46.2	46.2
75°	5603.1	1471.5	77.0	60.5	45.1	39.6	49.5	51.7	39.6	30.8	29.7
77.5°	3832.2	845.3	51.7	38.5	28.6	23.1	34.1	31.9	20.9	14.3	15.4
80°	1682.8	352.2	29.7	17.6	11.0	8.8	12.1	8.8	6.6	4.4	4.4
82.5°	197.0	82.5	11.0	6.6	4.4	2.2	1.1	0.0	0.0	0.0	0.0
85°	40.7	9.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	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)