

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: P947386

Luminaire Tested: **GALN-SB2D-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947386
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-SB2D-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3000K, 900mA 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: 15553 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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

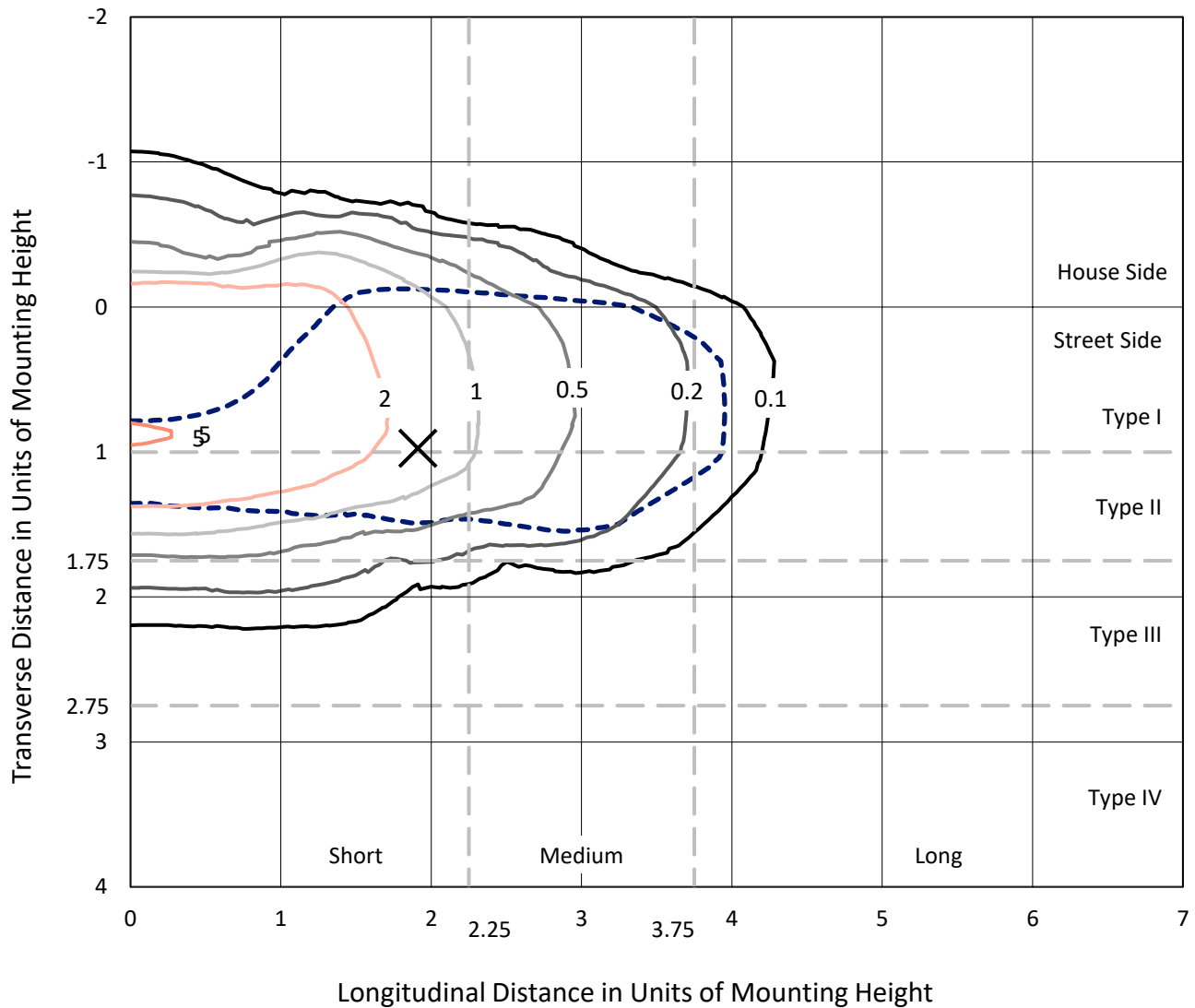


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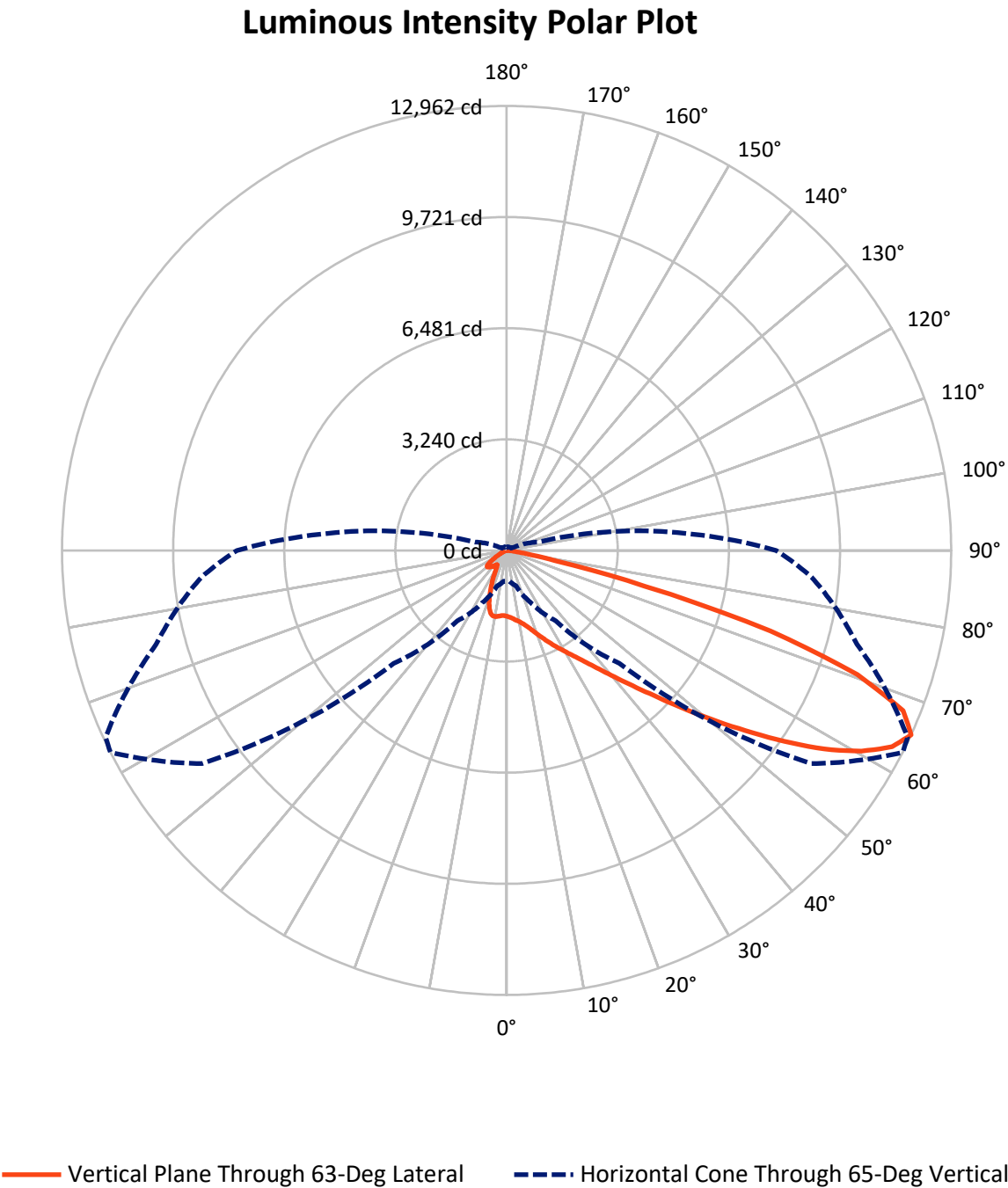
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
Type II - Short - N/A

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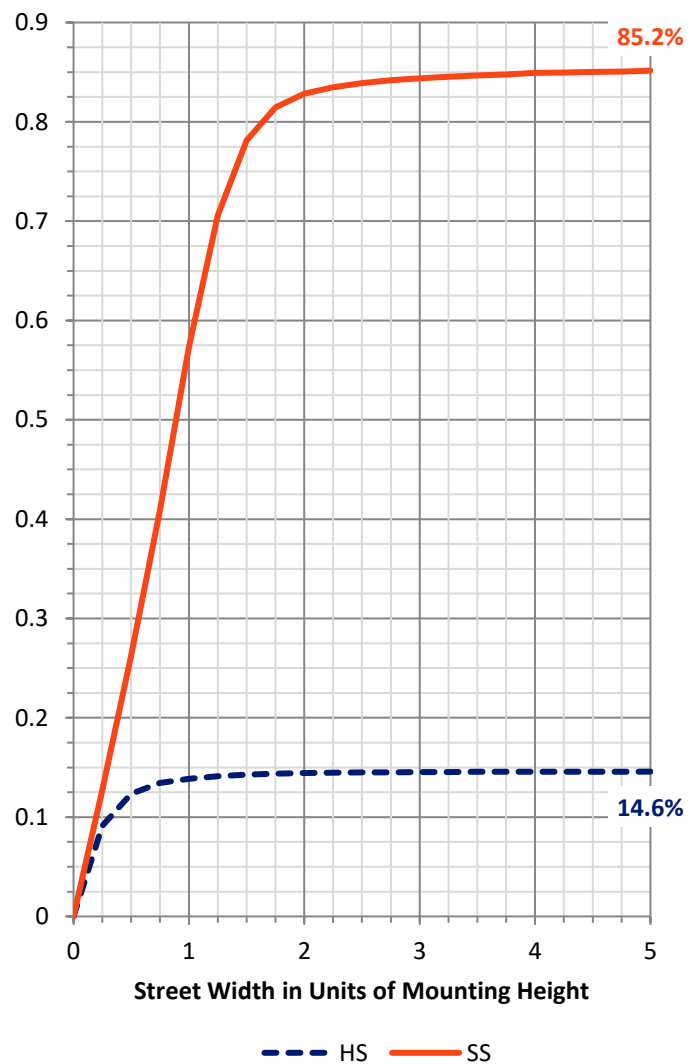
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2286.2	0.0	2286.2
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	13266.8	0.0	13266.8
	% Fixture	85.3	0.0	85.3
Total	Lumens	15553.0	0.0	15553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.2
10°-20°	501.8	3.2
20°-30°	873.8	5.6
30°-40°	1574.9	10.1
40°-50°	3123.5	20.1
50°-60°	4254.7	27.4
60°-70°	3396.1	21.8
70°-80°	1536.8	9.9
80°-90°	110.5	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°	15553.0	100.0
0°-180°	15553.0	100.0

Coefficient of Utilization



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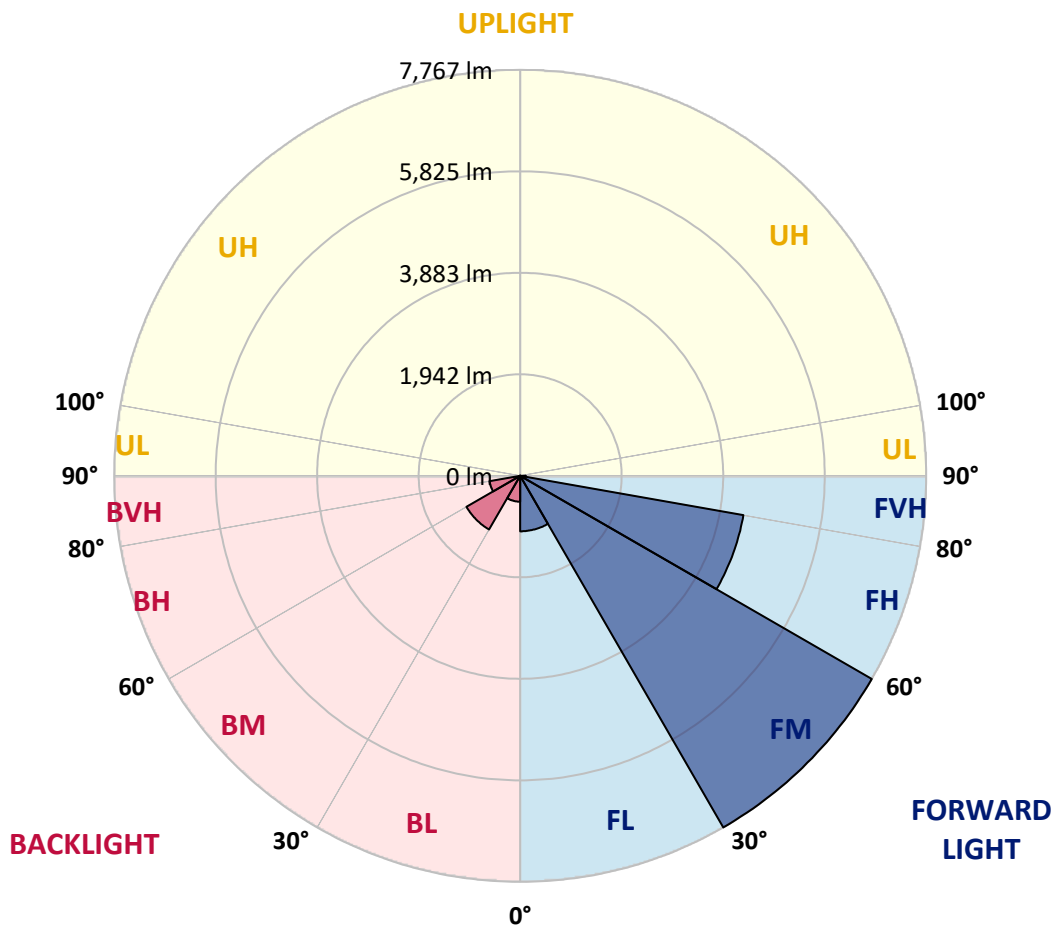
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1061.7	6.8			
FM	(30°-60°)	7766.8	49.9			
FH	(60°-80°)	4336.1	27.9			G2/5000
FVH	(80°-90°)	102.3	0.7			G2/225
BL	(0°-30°)	494.8	3.2	B1/500		
BM	(30°-60°)	1186.4	7.6	B2/2500		
BH	(60°-80°)	596.8	3.8	B2/1000		G2/1000
BVH	(80°-90°)	8.2	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°	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1964.5	1959.1	1966.6	1963.4	1961.3	1957.0	1954.8	1952.7	1948.4	1945.2	1932.4
5°	1969.8	1966.6	1974.1	1980.5	1986.9	1993.4	1996.6	2000.9	1996.6	1988.0	1975.2
7.5°	1924.9	1922.7	1938.8	1958.1	1986.9	2011.6	2038.3	2053.3	2054.4	2051.1	2037.2
10°	1921.7	1916.3	1932.4	1955.9	1993.4	2037.2	2084.3	2116.4	2120.7	2134.6	2119.6
12.5°	1972.0	1966.6	1989.1	2014.8	2053.3	2099.3	2157.1	2202.0	2208.4	2227.7	2217.0
15°	2056.5	2049.0	2074.7	2107.8	2157.1	2209.5	2270.5	2311.1	2316.5	2340.0	2320.8
17.5°	2154.9	2147.4	2177.4	2212.7	2266.2	2337.9	2408.5	2453.5	2459.9	2474.9	2439.5
20°	2281.2	2271.6	2295.1	2327.2	2383.9	2469.5	2554.0	2618.2	2617.2	2617.2	2559.4
22.5°	2427.8	2412.8	2433.1	2458.8	2512.3	2616.1	2728.4	2804.4	2804.4	2774.4	2679.2
25°	2585.1	2570.1	2592.5	2616.1	2663.2	2780.9	2912.5	3006.6	3010.9	2959.5	2807.6
27.5°	2781.9	2762.7	2779.8	2807.6	2835.4	2955.3	3111.5	3220.6	3222.8	3143.6	2929.6
30°	3160.7	3106.1	3052.6	3022.7	3035.5	3154.3	3321.2	3442.1	3452.8	3343.7	3062.3
32.5°	3854.0	3843.3	3655.0	3408.9	3280.5	3368.3	3555.5	3701.0	3707.5	3567.3	3234.5
35°	4931.5	4918.7	4615.9	4147.2	3728.9	3655.0	3840.1	4012.4	4008.1	3849.8	3458.2
37.5°	6217.6	6205.9	5806.8	5179.7	4502.5	4088.4	4207.1	4388.0	4414.7	4207.1	3747.1
40°	7316.5	7272.6	7020.1	6415.6	5529.6	4807.4	4729.3	4849.1	4876.9	4630.8	4114.1
42.5°	8148.9	8111.5	7983.1	7605.4	6772.9	5870.9	5344.5	5390.5	5421.6	5126.2	4535.6
45°	8580.1	8571.6	8622.9	8587.6	8039.8	7176.3	6224.0	6032.5	6044.3	5675.1	5013.9
47.5°	8641.1	8636.8	8871.2	9202.8	9129.0	8648.6	7352.9	6832.9	6791.1	6294.7	5533.9
50°	8281.6	8273.0	8722.4	9344.1	9856.6	9885.5	8634.7	7734.8	7642.8	6935.6	6076.4
52.5°	7133.5	7131.4	7869.7	8904.3	10112.3	10968.3	9901.5	8725.6	8571.6	7613.9	6649.9
55°	5489.0	5528.6	6374.9	7597.9	9645.8	11489.4	11038.9	9825.6	9589.1	8296.6	7178.5
57.5°	3888.3	3946.1	4782.8	5872.0	8199.2	11181.2	11808.2	10927.6	10673.0	8977.1	7714.5
60°	2088.6	2139.9	2977.7	4277.8	6099.9	10032.1	12213.8	11884.2	11643.5	9623.3	8198.1
62.5°	1244.4	1261.5	1608.2	2761.6	4125.8	7664.2	12041.5	12612.9	12414.9	10165.8	8618.6
65°	893.4	896.6	1071.0	1686.3	2504.8	4656.5	10833.5	12961.7	12900.7	10574.6	8930.0
67.5°	752.2	750.1	822.8	1120.3	1706.6	2332.5	8303.0	12468.4	12727.3	10833.5	9106.6
70°	645.2	648.4	734.0	820.7	1282.9	1320.3	4128.0	10856.0	11408.1	10902.0	9095.9
72.5°	480.4	491.1	570.3	747.9	968.3	908.4	1425.2	8049.4	9047.7	10271.8	8624.0
75°	339.2	344.5	401.2	629.1	722.2	661.2	727.6	4161.1	5440.8	7875.0	7058.6
77.5°	261.1	270.7	303.9	439.8	711.5	464.4	445.1	1440.2	2212.7	4757.1	4839.5
80°	141.2	158.4	219.3	317.8	499.7	328.5	220.4	573.5	750.1	2224.5	1866.0
82.5°	72.8	81.3	153.0	229.0	284.6	286.8	109.1	238.6	309.2	686.9	255.7
85°	28.9	35.3	102.7	126.3	146.6	141.2	49.2	96.3	111.3	190.5	78.1
87.5°	6.4	10.7	37.4	28.9	27.8	30.0	11.8	22.5	21.4	22.5	13.9
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°	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1931.3	1927.0	1915.3	1902.4	1887.4	1878.9	1873.5	1872.5	1865.0	1859.6	1865.0
5°	1963.4	1959.1	1936.7	1909.9	1881.0	1858.5	1837.1	1817.9	1790.1	1784.7	1782.6
7.5°	2027.6	2015.8	1979.5	1943.1	1888.5	1823.2	1744.1	1653.1	1571.8	1547.2	1535.4
10°	2106.8	2090.7	2044.7	1980.5	1859.6	1682.0	1490.5	1312.9	1171.6	1132.0	1117.1
12.5°	2196.7	2182.7	2121.8	2003.0	1738.7	1416.6	1123.5	903.1	766.1	731.9	722.2
15°	2303.7	2283.3	2198.8	1968.8	1522.6	1076.4	771.5	640.9	591.7	585.3	578.9
17.5°	2417.1	2383.9	2267.3	1845.7	1231.5	765.0	596.0	558.5	537.1	530.7	527.5
20°	2520.9	2478.1	2307.9	1659.5	920.2	596.0	533.9	509.3	490.0	482.6	478.3
22.5°	2624.6	2563.7	2307.9	1405.9	690.1	528.6	490.0	467.6	445.1	435.5	430.1
25°	2732.7	2651.4	2267.3	1123.5	555.3	484.7	448.3	423.7	404.5	392.7	388.4
27.5°	2837.6	2725.2	2174.2	856.0	494.3	446.2	409.8	386.3	368.1	359.5	359.5
30°	2937.1	2798.0	2043.7	649.5	454.7	408.7	374.5	354.2	336.0	327.4	328.5
32.5°	3071.9	2890.0	1904.6	532.8	420.5	373.4	342.4	323.1	307.1	300.7	300.7
35°	3259.1	3025.9	1784.7	523.2	391.6	344.5	313.5	295.3	279.3	273.9	273.9
37.5°	3524.5	3245.2	1721.6	587.4	368.1	318.9	290.0	270.7	255.7	251.4	250.4
40°	3851.9	3542.7	1755.8	651.6	352.0	296.4	268.6	249.3	236.5	231.1	230.0
42.5°	4240.3	3909.7	1945.2	700.8	341.3	277.1	248.2	226.8	218.3	216.1	216.1
45°	4686.5	4313.1	2235.2	753.3	324.2	258.9	227.9	211.9	205.4	204.4	203.3
47.5°	5193.7	4756.0	2571.1	818.5	307.1	241.8	211.9	201.2	195.8	193.7	193.7
50°	5696.5	5202.2	2916.8	854.9	293.2	225.8	199.0	190.5	186.2	185.1	185.1
52.5°	6223.0	5661.2	3196.0	820.7	281.4	212.9	188.3	181.9	177.6	176.5	176.5
55°	6724.8	6032.5	3244.2	696.6	257.9	200.1	176.5	173.3	168.0	168.0	166.9
57.5°	7157.1	6218.7	2903.9	511.4	234.3	180.8	164.8	161.6	157.3	156.2	155.1
60°	7554.0	6165.2	2241.6	344.5	208.6	161.6	149.8	147.7	143.4	138.0	137.0
62.5°	7777.6	5929.8	1533.3	224.7	183.0	141.2	132.7	131.6	122.0	111.3	109.1
65°	7862.2	5446.2	956.6	163.7	153.0	120.9	114.5	112.3	98.4	86.7	85.6
67.5°	7788.3	4650.1	482.6	129.5	120.9	100.6	94.2	94.2	84.5	73.8	72.8
70°	7493.0	3486.0	203.3	103.8	93.1	77.0	77.0	81.3	71.7	59.9	58.8
72.5°	6852.1	2345.4	108.1	79.2	69.5	54.6	63.1	66.3	56.7	44.9	44.9
75°	5447.2	1430.6	74.9	58.8	43.9	38.5	48.1	50.3	38.5	30.0	28.9
77.5°	3725.7	821.7	50.3	37.4	27.8	22.5	33.2	31.0	20.3	13.9	15.0
80°	1636.0	342.4	28.9	17.1	10.7	8.6	11.8	8.6	6.4	4.3	4.3
82.5°	191.5	80.2	10.7	6.4	4.3	2.1	1.1	0.0	0.0	0.0	0.0
85°	39.6	9.6	5.3	2.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	2.1	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)