

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: P945957

Luminaire Tested: **GALN-SB1D-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10368 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 79.6
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



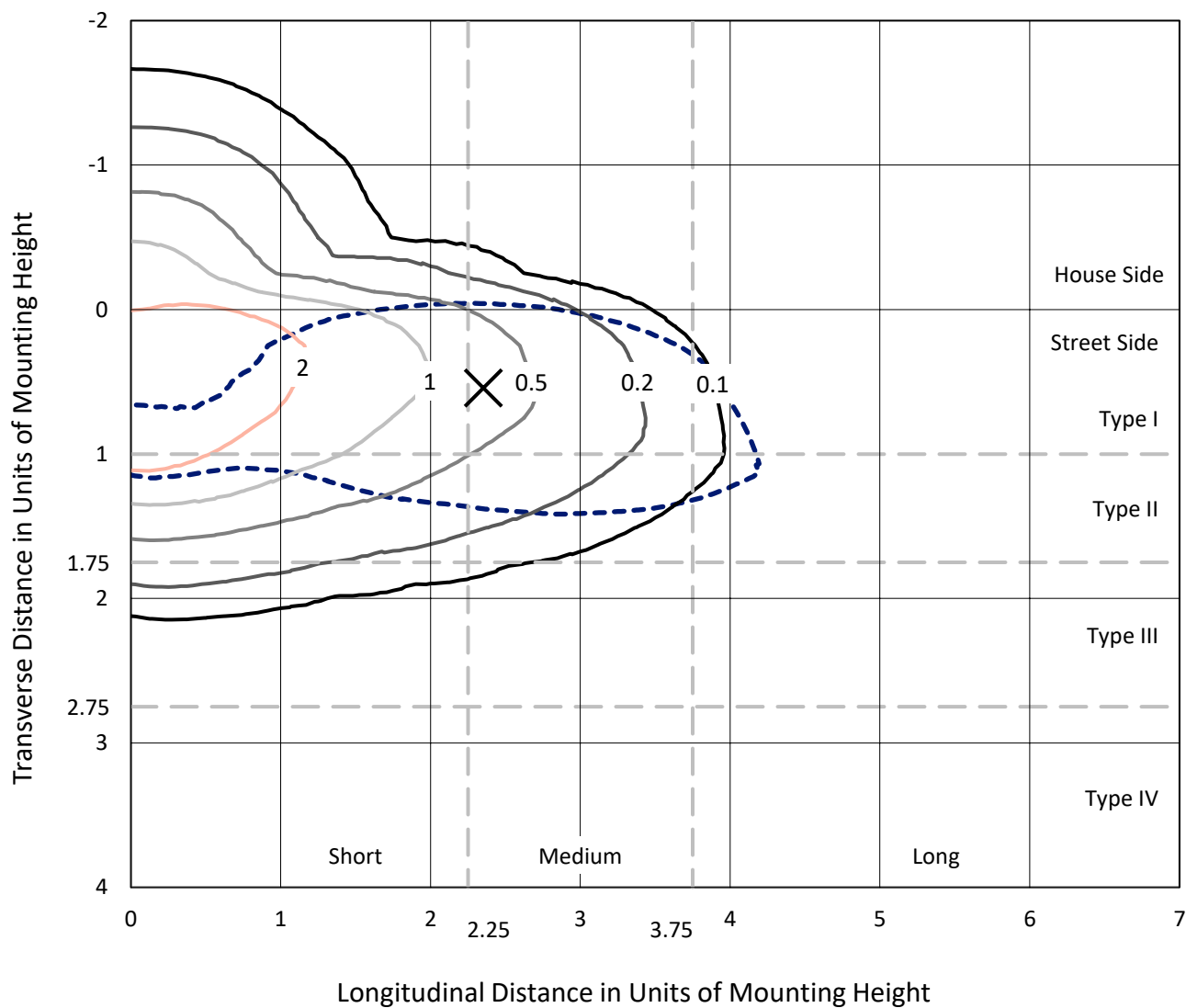
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

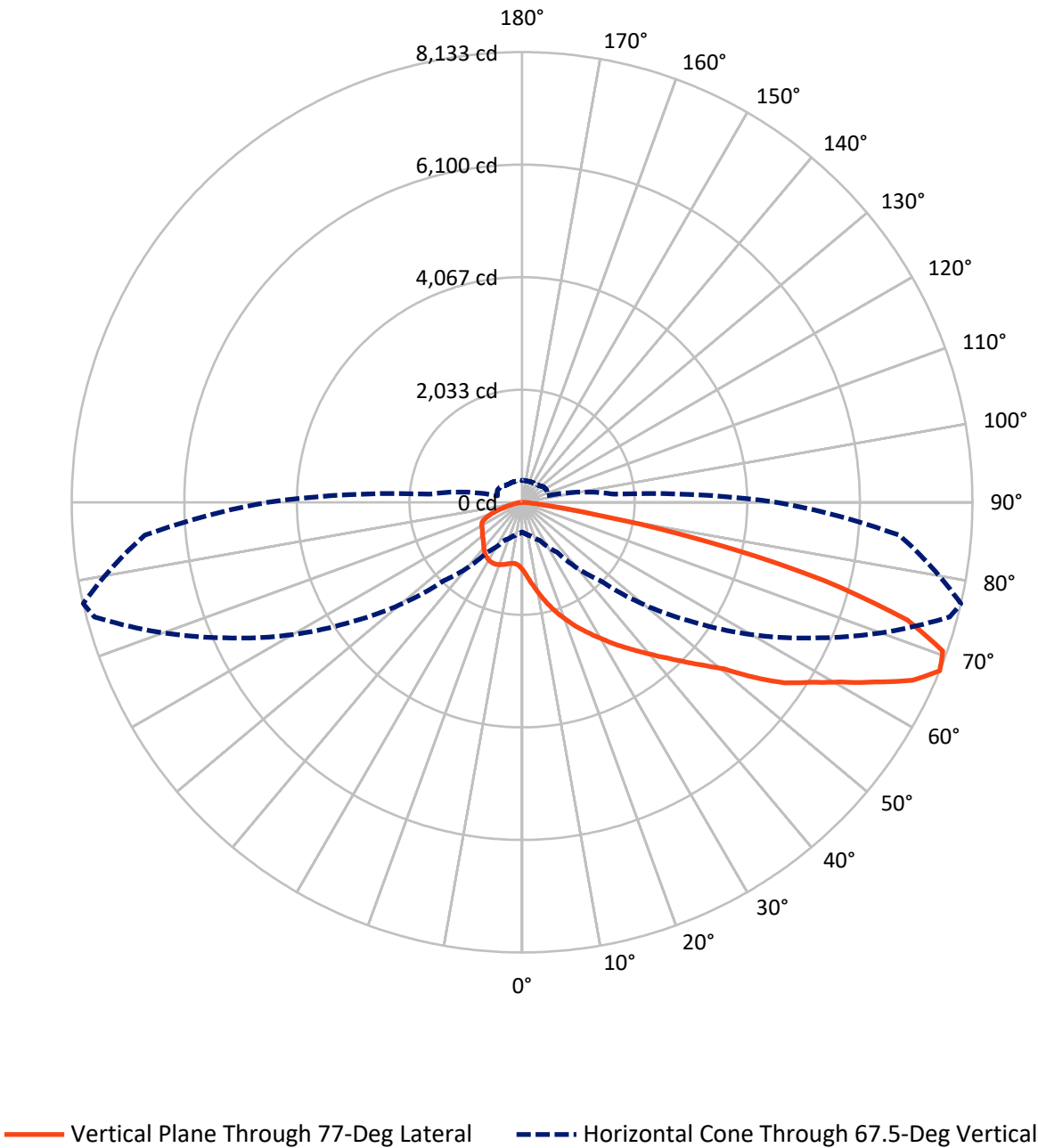
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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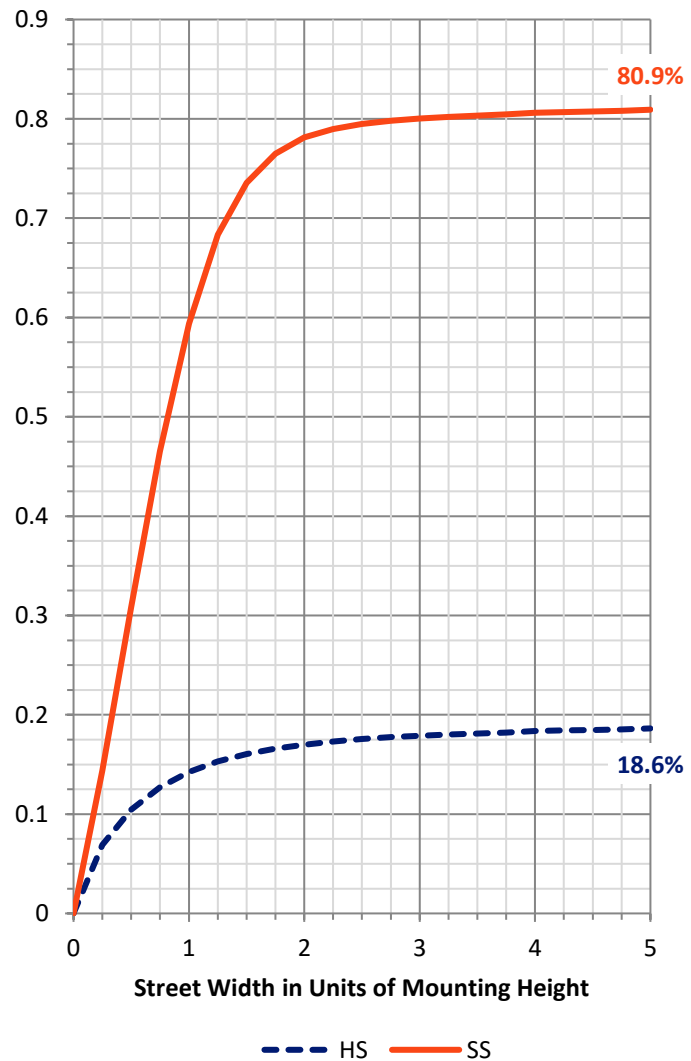
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1961.2	0.0	1961.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	8406.8	0.0	8406.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	10368.0	0.0	10368.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.4	1.3
10°-20°	468.4	4.5
20°-30°	884.5	8.5
30°-40°	1424.9	13.7
40°-50°	1948.9	18.8
50°-60°	2198.4	21.2
60°-70°	2052.0	19.8
70°-80°	1124.8	10.8
80°-90°	135.7	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°	10368.0	100.0
0°-180°	10368.0	100.0

Coefficient of Utilization



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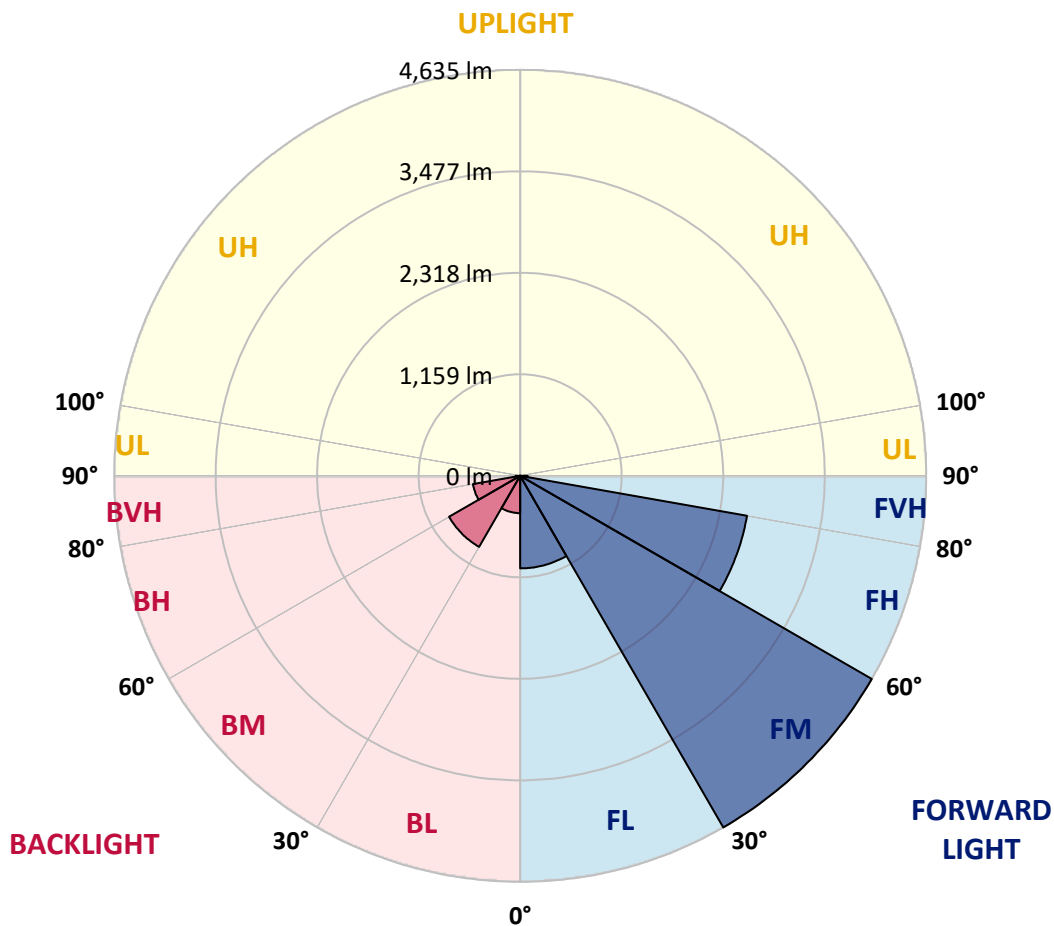
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.9	10.2			
FM	(30°-60°)	4635.4	44.7			
FH	(60°-80°)	2629.6	25.4			G2/5000
FVH	(80°-90°)	84.8	0.8			G1/100
BL	(0°-30°)	426.4	4.1	B1/500		
BM	(30°-60°)	936.8	9.0	B1/1000		
BH	(60°-80°)	547.1	5.3	B2/1000		G2/1000
BVH	(80°-90°)	50.8	0.5			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°	77°	85°
0°	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1523.2	1533.9	1520.5	1520.5	1475.5	1452.0	1407.0	1372.8	1311.2	1300.5	1259.8
5°	1800.4	1813.8	1795.0	1787.0	1734.0	1685.3	1609.9	1535.5	1425.7	1414.5	1318.7
7.5°	2015.0	2032.1	2015.5	2007.0	1959.9	1905.3	1817.0	1713.1	1558.5	1536.5	1397.9
10°	2190.0	2192.7	2187.3	2190.5	2153.6	2108.7	2018.2	1897.3	1704.0	1674.1	1493.7
12.5°	2289.0	2301.3	2312.0	2331.3	2324.9	2297.0	2215.7	2071.2	1858.2	1819.6	1598.1
15°	2335.6	2357.0	2381.1	2425.5	2461.3	2468.3	2406.2	2258.0	2015.0	1968.4	1703.5
17.5°	2352.2	2372.5	2410.5	2474.7	2551.8	2603.7	2575.9	2439.4	2170.2	2116.7	1814.3
20°	2436.2	2442.1	2465.1	2526.1	2609.6	2695.8	2716.6	2613.9	2323.8	2263.3	1928.8
22.5°	2616.0	2604.2	2610.7	2638.5	2698.4	2781.9	2829.6	2768.0	2481.7	2412.1	2044.4
25°	2913.0	2878.8	2844.5	2812.4	2842.9	2890.0	2944.1	2922.1	2647.1	2558.7	2161.1
27.5°	3288.2	3246.5	3171.0	3065.6	3028.6	3045.2	3069.3	3065.0	2800.1	2710.7	2281.5
30°	3657.5	3608.8	3518.9	3366.3	3268.9	3225.1	3206.9	3194.6	2966.6	2871.3	2403.0
32.5°	3952.4	3913.8	3825.5	3654.8	3513.5	3438.6	3378.1	3334.2	3140.5	3045.2	2531.5
35°	4210.3	4174.5	4073.3	3887.1	3733.5	3653.7	3574.5	3480.9	3321.4	3225.1	2669.5
37.5°	4445.8	4410.0	4271.4	4077.6	3922.9	3867.8	3797.2	3638.2	3502.8	3411.8	2815.6
40°	4594.6	4586.6	4457.1	4237.6	4077.1	4049.8	4026.2	3820.7	3704.1	3619.5	2976.2
42.5°	4632.6	4650.3	4547.5	4367.2	4214.1	4192.1	4247.3	4027.3	3929.9	3849.1	3158.2
45°	4541.1	4591.9	4524.5	4401.9	4311.5	4299.7	4443.2	4253.2	4179.8	4106.0	3377.6
47.5°	4309.4	4395.5	4367.7	4350.6	4337.7	4388.6	4615.5	4492.9	4463.0	4398.7	3628.1
50°	3841.6	4004.8	4053.5	4161.6	4285.8	4457.6	4772.3	4754.6	4793.7	4728.9	3933.1
52.5°	3032.9	3257.7	3540.3	3811.1	4126.3	4434.6	4944.6	5130.3	5295.2	5259.9	4418.0
55°	2503.6	2604.8	2822.1	3318.7	3817.0	4337.7	5022.2	5433.8	5792.9	5761.3	4785.7
57.5°	2096.9	2187.3	2321.1	2735.9	3349.2	4117.8	5070.4	5619.0	6133.8	6130.6	5148.5
60°	1660.7	1756.5	1893.5	2187.3	2802.8	3737.8	5059.7	5829.8	6568.9	6595.7	5591.1
62.5°	1168.3	1273.8	1425.7	1699.8	2244.6	3245.4	4841.3	5982.4	7081.1	7153.9	6123.7
65°	768.0	837.6	952.1	1188.7	1672.5	2612.3	4424.4	6002.2	7629.1	7752.2	6623.5
67.5°	538.4	565.2	632.6	761.0	1102.5	2003.2	3760.2	5797.2	7994.7	8133.3	6840.3
70°	420.1	433.5	467.8	519.1	692.5	1347.1	2881.5	5264.1	7916.5	8061.0	6613.9
72.5°	362.9	375.7	388.5	395.0	464.5	831.7	1951.8	4401.4	7180.7	7278.6	5750.6
75°	329.1	332.4	343.1	340.9	354.3	539.5	1126.6	3206.9	5665.5	5631.8	4245.1
77.5°	276.7	281.0	298.6	296.0	314.7	368.7	585.0	2069.6	3673.0	3444.0	2362.9
80°	234.4	236.6	255.8	252.6	273.5	267.1	298.6	1054.9	1557.9	1319.8	681.3
82.5°	81.3	100.6	195.3	201.2	208.7	161.6	172.3	430.3	475.8	364.5	142.9
85°	39.6	42.3	99.5	141.3	140.8	81.3	84.0	153.6	149.9	117.7	47.6
87.5°	6.4	8.0	11.8	55.1	43.9	21.4	28.9	30.0	31.0	26.8	10.7
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°	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1229.9	1203.1	1146.9	1095.0	1054.3	1015.3	993.3	974.6	963.9	961.7	961.7
5°	1263.1	1207.9	1105.7	1019.5	963.3	921.6	899.7	885.7	878.8	874.5	874.0
7.5°	1310.7	1229.9	1084.3	986.4	927.5	897.5	886.3	884.1	883.6	884.1	885.7
10°	1376.5	1265.7	1082.2	978.3	929.1	912.5	912.0	912.5	914.6	915.2	915.7
12.5°	1447.7	1302.7	1090.7	985.3	949.4	940.3	938.7	938.2	939.8	940.9	941.4
15°	1525.3	1351.4	1105.2	1000.3	971.9	962.3	960.7	957.5	956.9	956.4	955.9
17.5°	1605.0	1399.5	1121.2	1016.3	986.4	973.0	967.1	959.6	953.7	952.1	953.7
20°	1685.9	1447.2	1132.5	1024.4	987.4	968.7	956.9	944.1	933.9	928.0	930.2
22.5°	1772.0	1496.9	1139.4	1022.2	977.8	952.1	930.7	915.7	900.2	890.0	890.6
25°	1856.0	1540.3	1138.9	1011.0	959.1	926.4	899.1	879.9	858.4	847.7	847.7
27.5°	1936.9	1579.3	1125.5	991.2	932.3	895.9	863.3	840.2	819.4	809.2	808.7
30°	2020.3	1612.0	1104.6	962.3	900.7	860.6	824.7	804.9	786.2	776.6	776.0
32.5°	2103.3	1642.0	1075.2	926.4	864.3	825.8	790.5	772.3	761.0	761.0	761.6
35°	2191.1	1662.8	1036.1	884.7	825.8	788.9	761.0	750.3	749.3	742.8	741.2
37.5°	2283.7	1676.2	988.5	841.9	787.8	753.0	744.5	731.6	720.9	707.0	704.8
40°	2381.1	1689.6	931.2	797.4	747.7	728.4	724.6	707.5	677.0	642.8	637.9
42.5°	2499.3	1698.7	871.8	753.0	705.4	699.0	704.3	674.9	626.2	600.5	601.0
45°	2636.3	1713.7	817.2	709.1	662.0	662.0	684.5	646.0	605.8	589.8	592.5
47.5°	2814.0	1748.5	766.4	661.0	621.9	632.6	640.6	611.2	588.7	568.9	568.4
50°	3070.9	1832.0	713.9	612.3	591.4	612.8	601.6	584.4	558.2	542.1	540.5
52.5°	3389.9	1881.2	667.4	568.4	565.2	586.6	570.5	554.5	534.7	513.2	509.0
55°	3607.2	1890.3	628.3	536.3	547.5	545.4	539.5	525.0	514.3	486.0	486.5
57.5°	3850.2	1908.5	596.2	517.0	536.3	512.7	510.6	498.3	484.3	465.1	458.7
60°	4140.8	1936.9	568.4	509.5	526.6	491.3	480.6	475.8	461.9	452.2	454.9
62.5°	4457.6	1962.5	540.0	510.6	515.4	470.4	454.4	452.8	444.2	441.0	441.0
65°	4673.8	1892.4	504.7	509.5	497.7	449.0	428.7	428.2	421.2	420.1	419.6
67.5°	4598.4	1670.3	457.1	494.5	479.5	427.6	405.1	403.0	393.9	394.4	394.4
70°	4220.5	1353.5	391.2	457.6	457.1	408.4	380.5	373.6	361.3	363.4	365.5
72.5°	3511.9	1002.9	302.9	396.0	421.2	390.7	352.2	340.9	325.4	327.5	327.0
75°	2536.3	681.8	220.5	301.3	366.6	369.8	324.3	305.1	286.3	289.5	290.6
77.5°	1297.8	386.4	162.2	207.7	287.9	336.1	299.2	273.5	269.2	299.2	294.9
80°	423.3	193.7	112.4	145.6	188.9	275.1	262.2	232.8	231.7	238.7	205.0
82.5°	126.3	81.9	72.3	95.8	104.4	210.9	226.4	176.1	151.5	159.5	164.8
85°	43.4	39.6	41.2	47.6	49.8	123.6	158.4	116.7	110.2	121.5	119.9
87.5°	10.2	13.9	11.8	10.7	10.7	30.0	61.5	48.7	67.4	45.0	43.4
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)