

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: P945585

Luminaire Tested: **GALN-SB1C-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6935 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 54.4
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



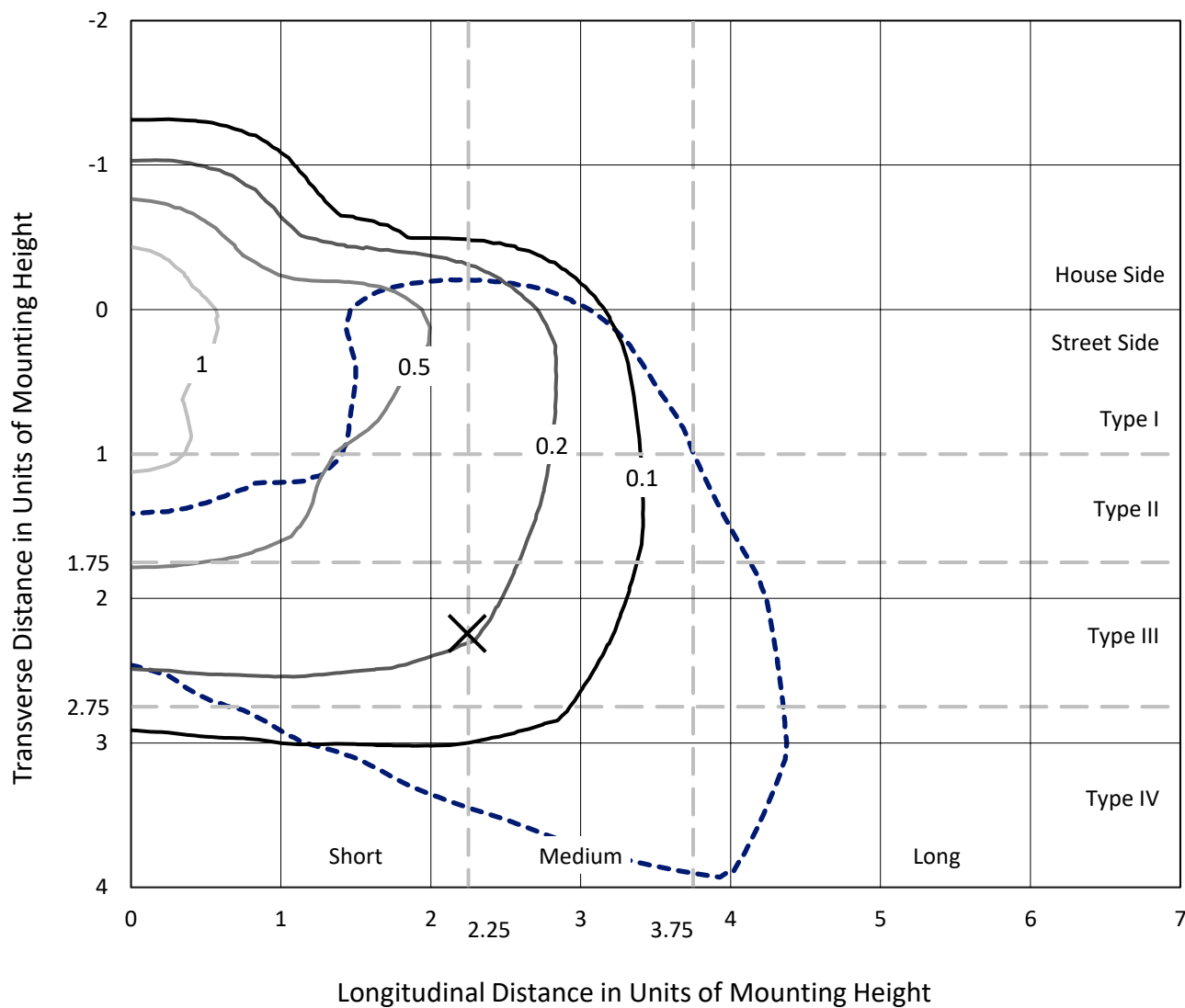
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Iso-Footcandle Lines of Horizontal Illumination

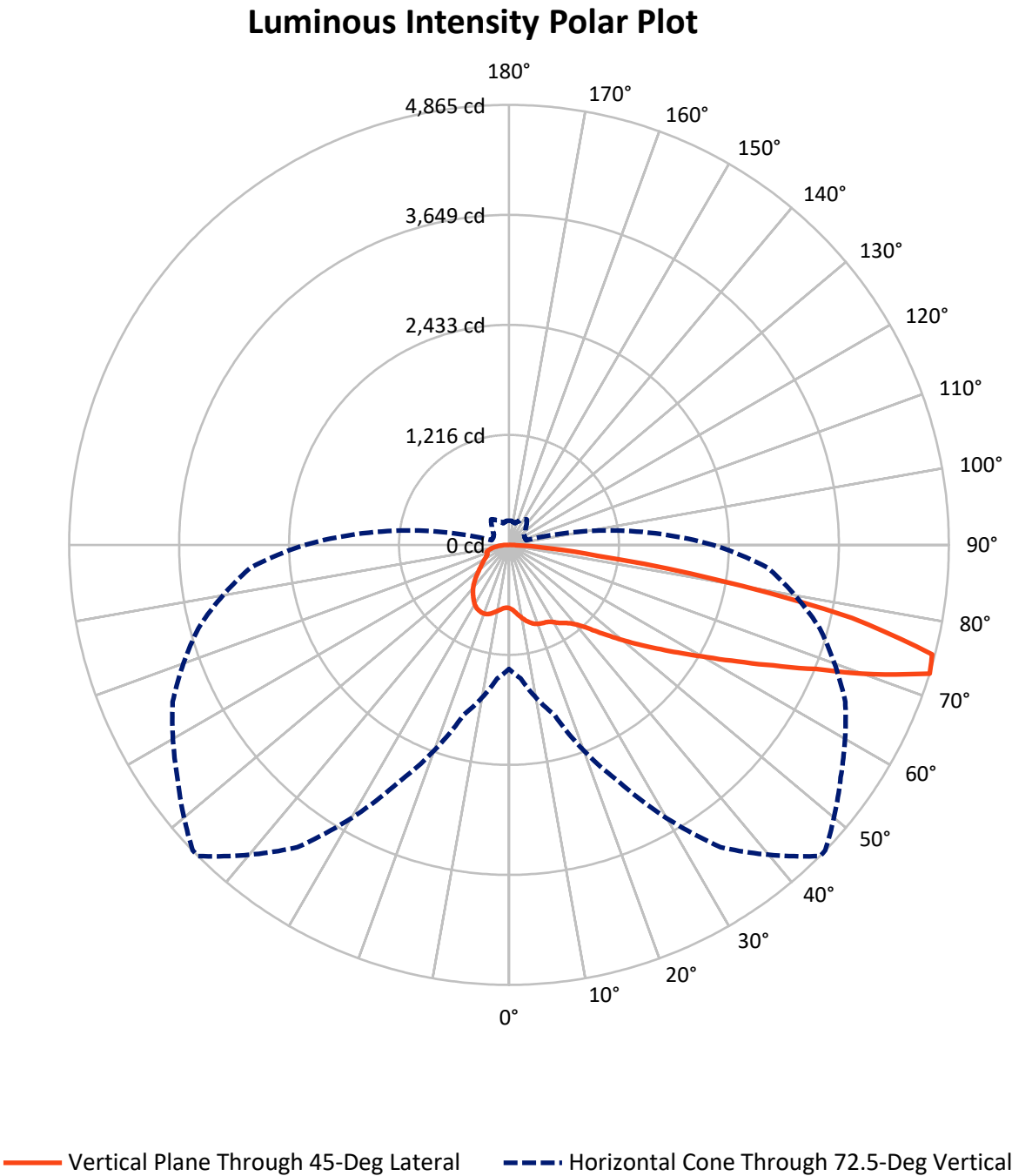
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
Type IV - Short - N/A

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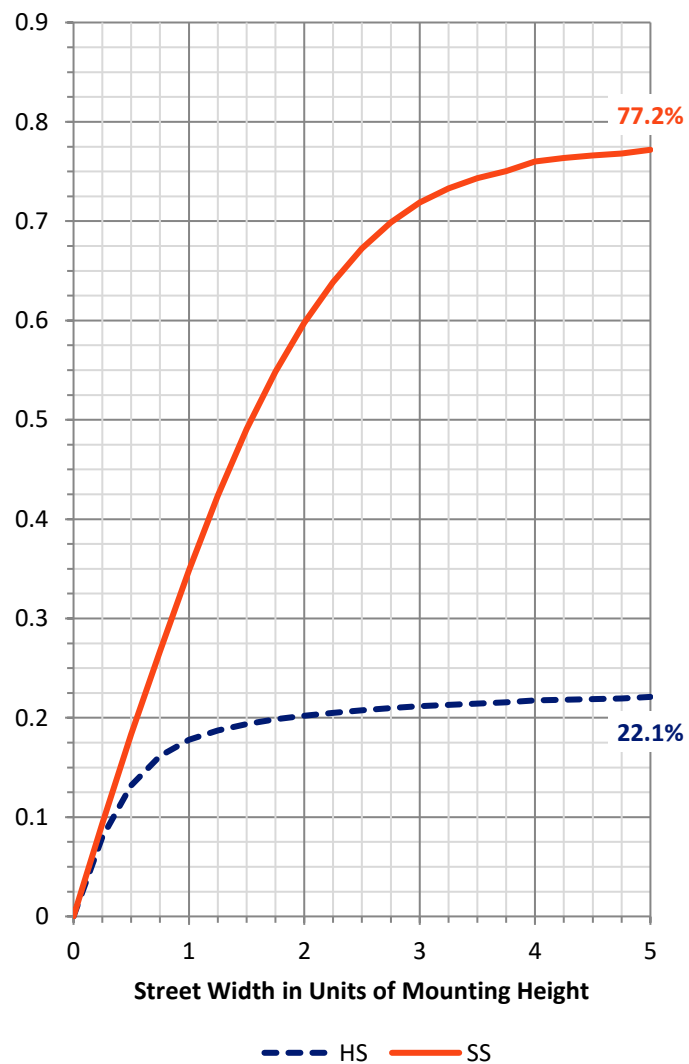
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1567.8	0.0	1567.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	5367.2	0.0	5367.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	6935.0	0.0	6935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.0
10°-20°	237.4	3.4
20°-30°	413.0	6.0
30°-40°	592.0	8.5
40°-50°	833.6	12.0
50°-60°	1276.9	18.4
60°-70°	1849.7	26.7
70°-80°	1477.1	21.3
80°-90°	184.0	2.7
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°	6935.0	100.0
0°-180°	6935.0	100.0

Coefficient of Utilization



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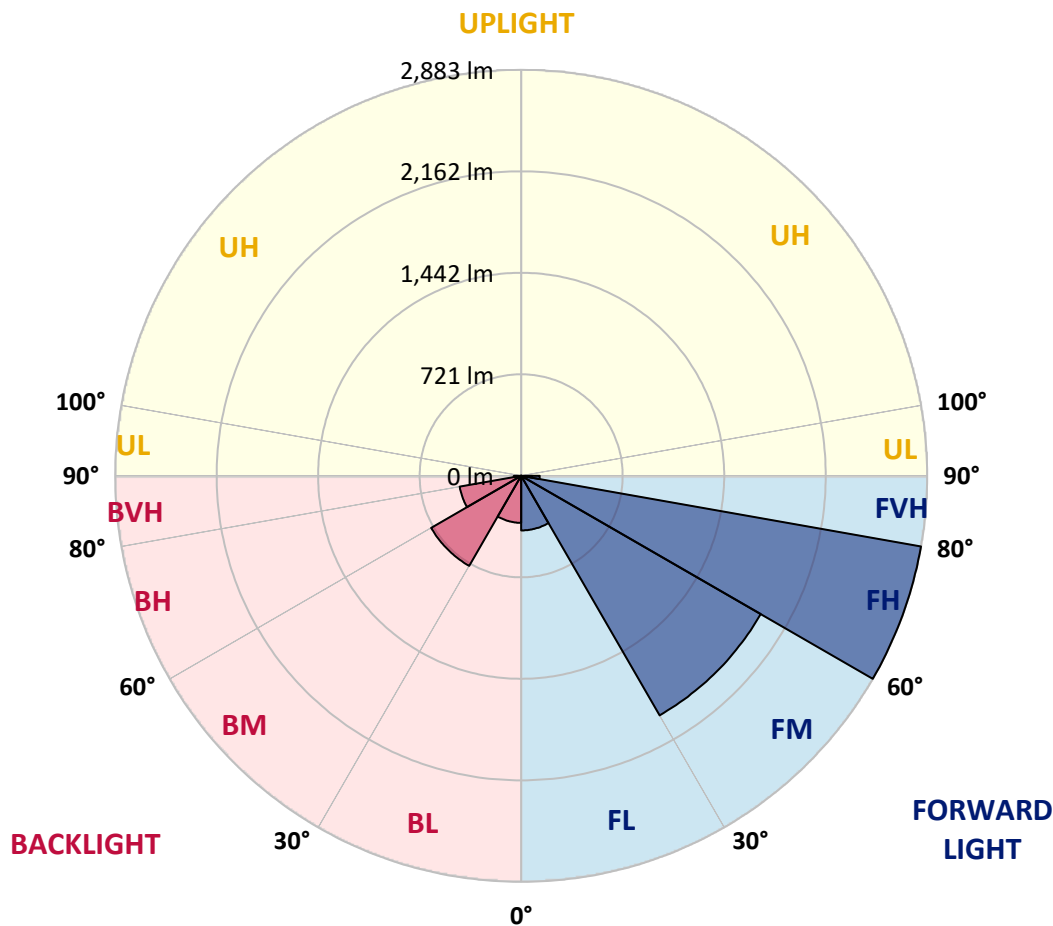
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.8	5.6			
FM	(30°-60°)	1964.4	28.3			
FH	(60°-80°)	2883.1	41.6			G2/5000
FVH	(80°-90°)	132.0	1.9			G2/225
BL	(0°-30°)	333.8	4.8	B1/500		
BM	(30°-60°)	738.2	10.6	B1/1000		
BH	(60°-80°)	443.8	6.4	B1/500		G1/500
BVH	(80°-90°)	52.0	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6
2.5°	727.0	731.8	727.4	723.4	721.5	716.8	716.4	713.5	711.7	706.5	705.1
5°	777.8	784.0	776.7	768.7	761.3	749.7	748.2	739.8	730.3	719.3	713.1
7.5°	835.1	840.6	832.2	820.2	807.4	788.0	787.7	772.3	757.3	738.7	728.1
10°	885.2	892.5	881.2	864.7	848.7	826.7	824.2	806.6	787.7	763.5	747.5
12.5°	929.4	934.5	923.6	903.5	884.8	862.9	859.6	840.3	819.1	791.7	771.2
15°	964.5	971.0	956.4	934.9	915.2	893.6	890.7	873.1	851.9	823.1	796.8
17.5°	987.5	993.0	978.0	953.9	934.9	917.0	914.8	900.2	881.5	852.3	824.2
20°	996.3	1002.1	986.4	961.9	944.4	930.5	929.4	918.8	906.0	879.3	850.9
22.5°	1005.0	1010.5	990.0	964.5	949.1	940.4	940.0	933.1	927.9	906.0	878.3
25°	1040.5	1041.9	1014.5	977.6	955.7	948.0	947.7	947.3	949.5	932.3	907.8
27.5°	1071.1	1070.8	1047.4	1012.7	978.7	962.6	962.3	965.9	972.9	958.6	938.5
30°	1116.1	1112.1	1084.3	1048.1	1017.1	992.2	990.0	986.8	992.2	980.9	969.2
32.5°	1211.4	1198.6	1153.7	1089.4	1048.9	1029.9	1026.9	1006.5	1008.7	1001.7	995.9
35°	1348.1	1331.3	1271.3	1167.6	1088.3	1061.3	1059.8	1033.9	1029.5	1023.3	1025.5
37.5°	1510.6	1489.8	1420.0	1280.8	1156.3	1097.8	1095.6	1072.2	1054.3	1047.8	1060.2
40°	1673.9	1647.6	1589.9	1418.9	1256.4	1158.8	1151.9	1116.4	1096.0	1085.0	1111.3
42.5°	1832.5	1810.6	1761.3	1573.8	1379.9	1248.0	1232.6	1172.0	1156.6	1146.4	1193.9
45°	1972.8	1953.1	1916.9	1739.3	1524.5	1369.3	1354.3	1255.3	1250.5	1250.5	1319.2
47.5°	2086.8	2082.4	2044.0	1908.1	1695.1	1507.4	1481.4	1371.1	1383.9	1403.6	1497.1
50°	2213.2	2201.1	2160.2	2074.3	1895.7	1665.5	1644.3	1513.2	1561.1	1615.1	1754.3
52.5°	2329.3	2335.9	2290.3	2247.5	2122.2	1842.0	1804.7	1680.9	1784.3	1873.8	2055.7
55°	2448.8	2449.2	2436.4	2430.5	2359.7	2037.1	1996.2	1882.5	2046.9	2158.0	2407.2
57.5°	2561.0	2561.7	2580.7	2632.2	2635.1	2262.1	2215.7	2130.2	2338.8	2452.1	2769.6
60°	2661.1	2666.2	2718.1	2838.6	2877.3	2520.0	2476.2	2422.9	2640.6	2754.6	3150.6
62.5°	2694.7	2713.3	2828.7	3000.1	3116.6	2836.4	2793.3	2761.5	2957.7	3063.7	3469.2
65°	2637.7	2680.4	2903.6	3133.4	3362.9	3212.3	3169.6	3134.9	3287.2	3387.0	3730.7
67.5°	2497.8	2552.9	2899.3	3273.4	3661.7	3664.6	3624.8	3543.3	3640.5	3678.9	3815.9
70°	2129.1	2211.7	2643.9	3325.6	4004.7	4283.1	4244.8	4035.1	3993.1	3807.5	3576.2
72.5°	1371.8	1482.9	1946.8	2895.6	4081.1	4865.1	4862.9	4478.9	4104.5	3557.6	2868.2
75°	500.5	568.5	904.6	1817.5	3425.7	4835.5	4849.8	4403.0	3746.8	2748.0	1786.8
77.5°	182.3	199.5	295.2	698.5	2106.9	3879.8	3909.4	3520.0	2666.9	1379.1	708.0
80°	95.7	105.2	151.2	271.1	902.7	2304.1	2350.5	2091.9	1253.4	415.4	212.3
82.5°	53.0	57.4	84.8	147.2	406.6	985.3	1013.1	826.4	441.0	176.1	87.7
85°	28.5	30.3	39.8	80.4	198.7	341.6	349.3	247.0	175.7	103.4	42.4
87.5°	8.4	10.2	13.2	25.6	77.8	76.7	78.5	49.0	69.4	52.2	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°	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6	699.6
2.5°	702.9	701.8	697.8	696.0	693.8	693.4	695.2	695.6	696.0	696.3	697.8
5°	709.5	705.8	702.2	700.0	700.7	701.1	704.7	707.3	709.1	710.6	711.3
7.5°	722.3	719.3	713.1	712.8	713.9	717.1	721.9	727.7	731.0	733.6	734.3
10°	741.3	735.8	728.5	729.6	731.8	736.5	746.4	751.1	756.6	761.3	760.3
12.5°	760.6	755.9	747.5	748.2	751.8	760.3	769.7	775.6	779.2	782.9	784.4
15°	785.8	777.4	768.3	768.3	774.9	784.0	788.4	793.1	795.3	799.3	800.8
17.5°	811.8	800.8	788.7	788.0	796.1	800.4	803.0	803.7	804.5	808.8	810.3
20°	837.7	825.6	808.5	807.0	808.8	808.1	807.7	807.0	808.1	813.6	815.8
22.5°	863.3	849.4	825.6	819.1	814.0	807.0	806.6	806.3	807.0	812.5	816.1
25°	893.2	876.4	844.6	824.9	807.7	798.2	799.3	799.7	800.4	804.8	810.7
27.5°	925.7	907.1	862.2	823.1	792.0	785.5	783.6	784.7	787.3	794.2	801.2
30°	958.3	936.3	878.3	815.8	772.3	763.2	757.3	759.9	767.9	774.9	782.5
32.5°	987.9	965.9	891.0	799.7	747.1	732.9	725.2	728.5	736.5	739.1	748.2
35°	1022.6	997.7	896.5	774.1	719.7	697.8	687.6	682.8	686.8	684.3	692.3
37.5°	1061.3	1035.3	895.8	740.5	687.6	662.3	648.1	630.2	621.8	613.0	618.5
40°	1118.6	1081.4	887.0	700.0	647.7	624.7	599.1	568.8	549.8	532.7	533.7
42.5°	1196.8	1145.3	870.9	655.4	602.8	581.2	546.5	511.1	481.1	452.6	450.1
45°	1313.4	1229.0	850.9	607.9	554.2	533.0	495.4	455.6	421.6	385.1	380.7
47.5°	1481.4	1341.5	831.9	553.8	503.1	483.7	449.7	412.8	372.6	337.2	333.2
50°	1712.3	1503.0	814.3	501.2	452.6	438.0	411.0	373.4	332.8	304.3	302.5
52.5°	2006.0	1722.5	807.0	450.5	405.5	400.0	378.5	343.4	305.1	280.9	279.1
55°	2343.2	1985.2	807.0	401.9	364.2	366.1	351.1	318.6	285.3	263.8	261.6
57.5°	2687.4	2251.2	792.4	356.9	329.2	336.8	327.3	298.8	268.9	246.6	242.9
60°	3004.5	2474.0	733.2	316.0	298.1	310.2	304.0	279.5	242.9	224.3	221.4
62.5°	3248.1	2599.7	619.2	283.5	272.5	286.4	283.1	253.9	238.2	230.5	228.0
65°	3370.2	2579.2	473.5	254.6	251.0	272.5	265.6	264.5	252.1	243.3	240.4
67.5°	3295.3	2403.1	343.4	233.4	238.6	259.7	286.4	290.8	267.8	250.6	247.7
70°	2966.8	2084.6	255.7	213.4	222.9	260.1	326.6	304.3	262.7	242.6	239.3
72.5°	2257.0	1554.5	198.4	192.2	202.4	261.9	344.5	298.1	248.1	268.2	266.0
75°	1290.7	853.4	159.3	166.2	176.8	244.8	335.4	282.0	236.7	246.2	246.2
77.5°	492.1	328.1	131.5	140.7	142.1	213.7	320.8	280.9	225.4	219.9	200.6
80°	170.6	128.2	108.9	111.8	110.0	190.0	307.6	244.4	184.5	165.1	159.6
82.5°	69.8	63.9	86.2	82.6	78.2	147.6	248.4	199.8	150.9	133.3	131.9
85°	30.3	40.6	57.0	50.1	45.3	102.3	199.1	169.1	127.5	110.0	109.6
87.5°	6.2	15.3	24.1	22.7	23.4	68.3	141.4	120.2	90.2	67.6	53.0
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)