

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: P948067

Luminaire Tested: **GALN-SB3B-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3B-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15938 lumens
Efficiency: N/A
Efficacy: 146.0 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): 109.2
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

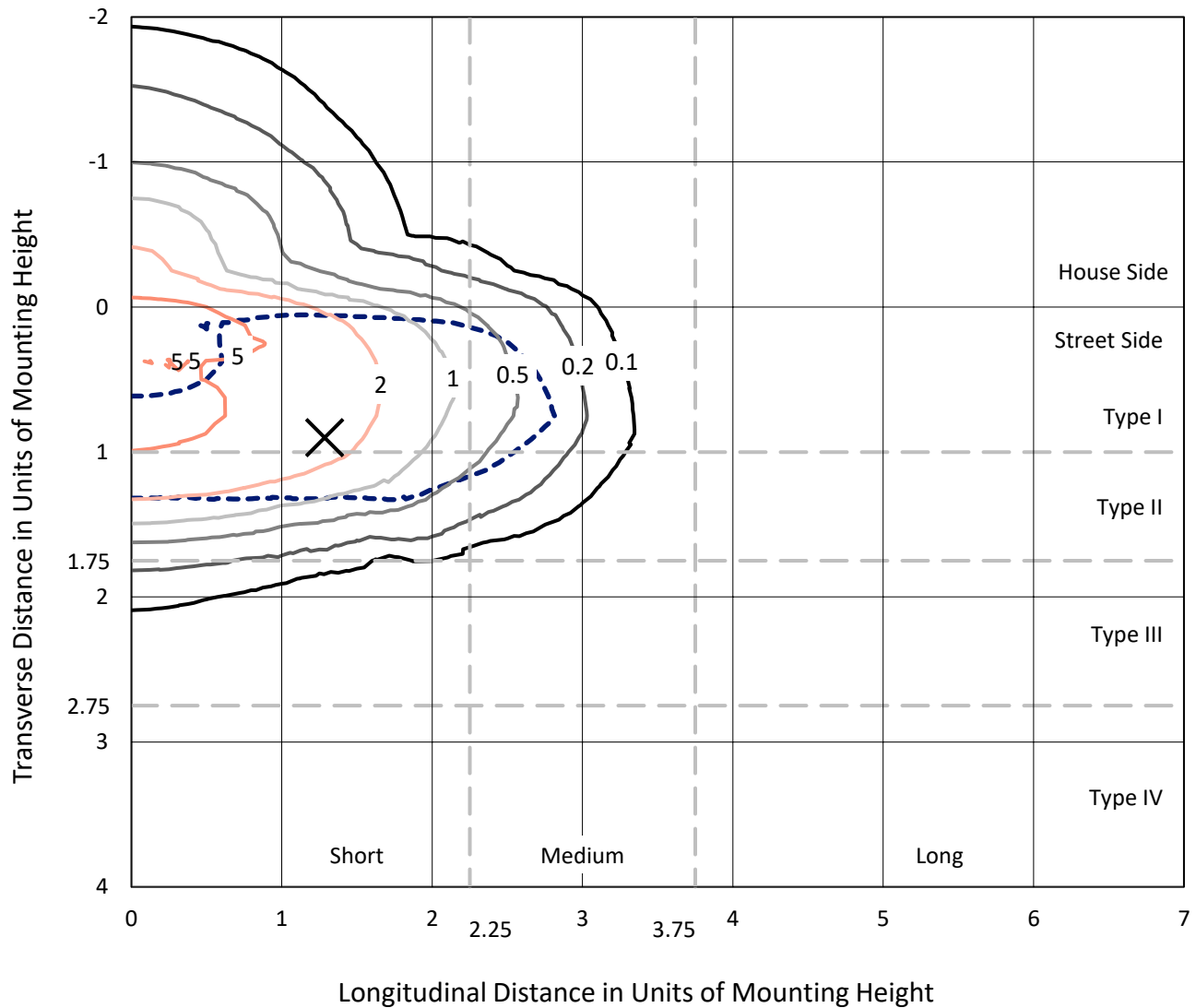


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

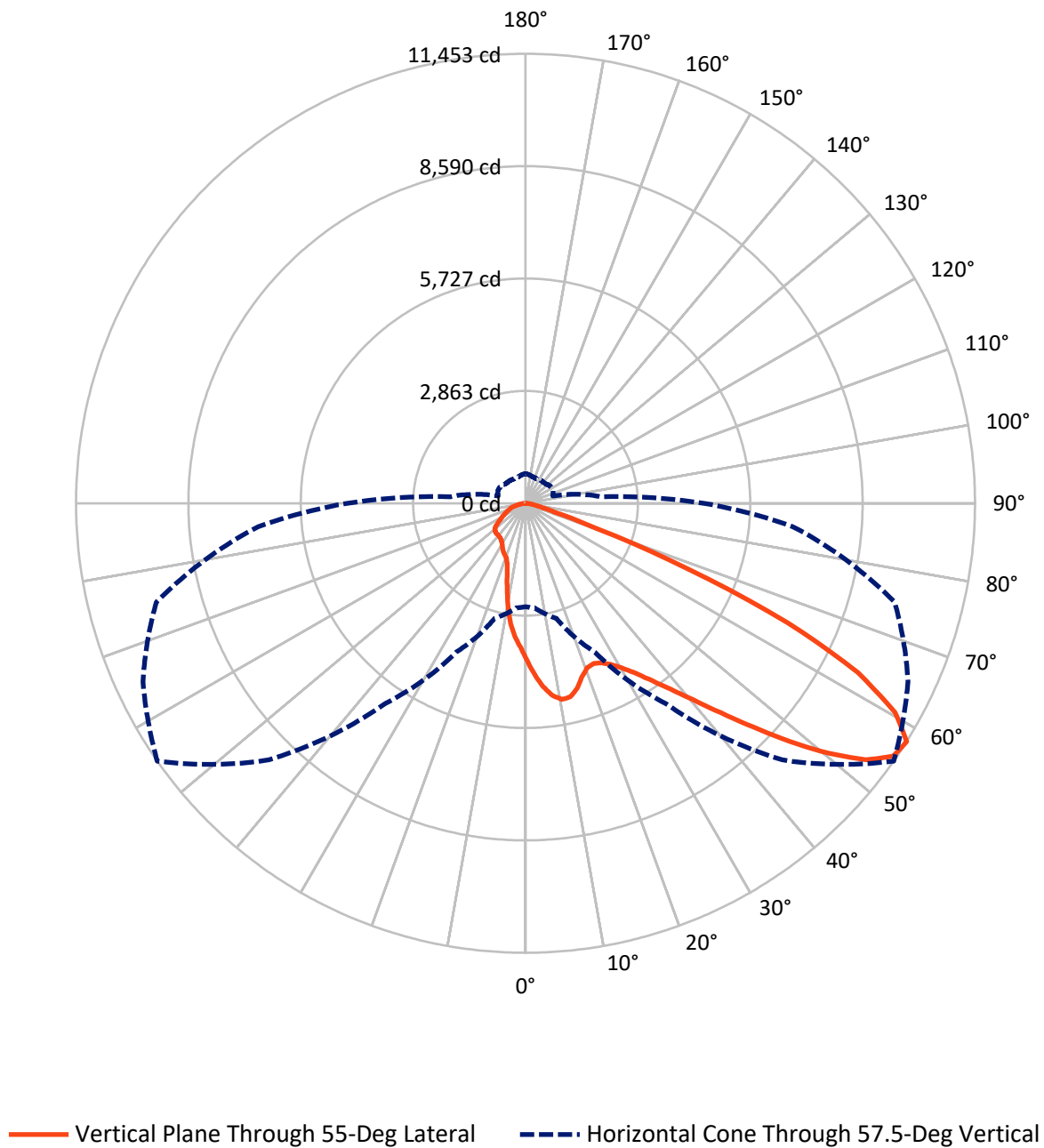


Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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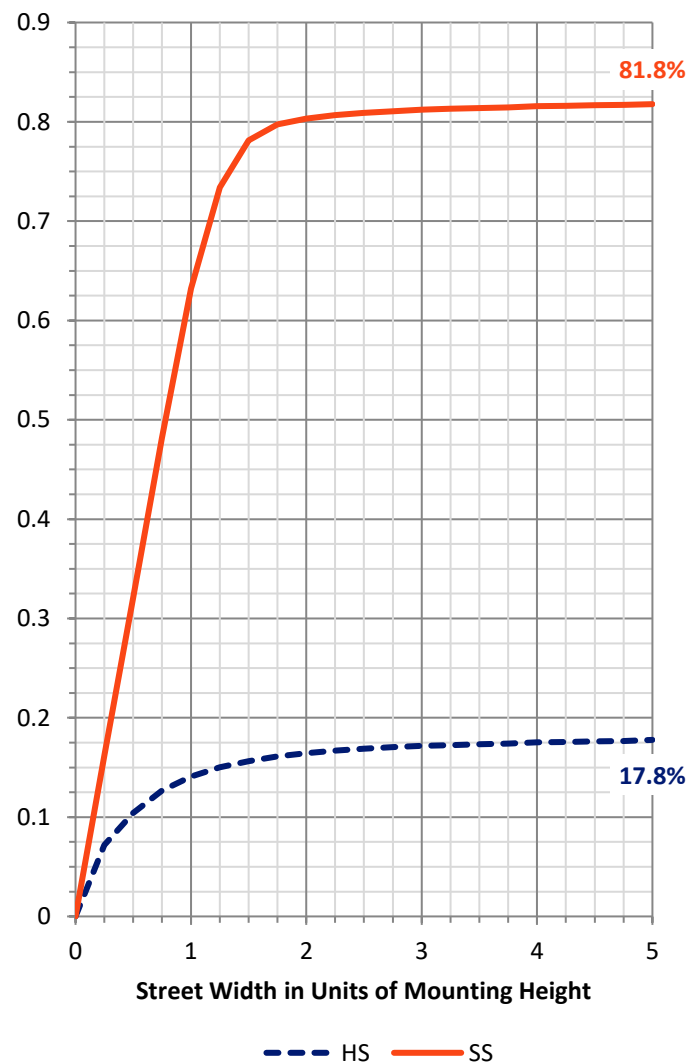
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2883.9	0.0	2883.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	13054.1	0.0	13054.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	15938.0	0.0	15938.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.6	2.3
10°-20°	935.4	5.9
20°-30°	1492.6	9.4
30°-40°	2363.1	14.8
40°-50°	3617.0	22.7
50°-60°	3874.1	24.3
60°-70°	2437.2	15.3
70°-80°	720.7	4.5
80°-90°	127.4	0.8
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°	15938.0	100.0
0°-180°	15938.0	100.0

Coefficient of Utilization



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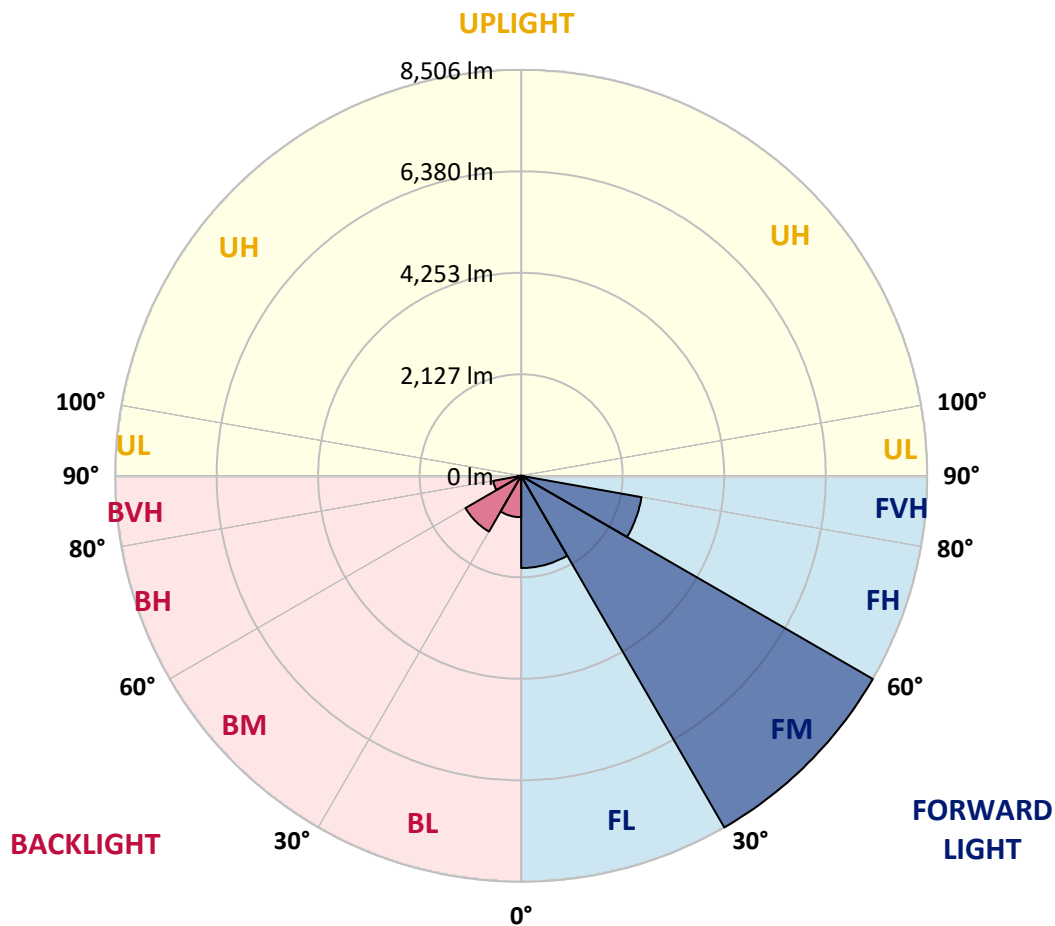
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.7	12.1			
FM	(30°-60°)	8506.2	53.4			
FH	(60°-80°)	2562.3	16.1			G2/5000
FVH	(80°-90°)	53.8	0.3			G1/100
BL	(0°-30°)	866.8	5.4	B2/1000		
BM	(30°-60°)	1347.9	8.5	B2/2500		
BH	(60°-80°)	595.6	3.7	B2/1000		G2/1000
BVH	(80°-90°)	73.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5
2.5°	4581.8	4578.5	4596.7	4534.9	4492.8	4436.0	4361.0	4265.4	4162.4	4053.7	4006.7
5°	4994.6	4965.8	4984.7	4938.6	4892.4	4806.8	4695.5	4539.8	4349.5	4132.8	4017.4
7.5°	4929.5	4909.7	4958.4	4999.6	5034.2	5023.4	4941.9	4778.7	4533.2	4218.5	4051.2
10°	4404.7	4382.4	4450.8	4593.4	4802.6	4984.7	5083.6	4982.3	4721.1	4312.4	4084.2
12.5°	3941.6	3930.9	3976.2	4091.6	4323.9	4673.3	5065.5	5160.2	4916.3	4423.6	4128.7
15°	3743.9	3730.7	3759.6	3818.1	3966.4	4291.8	4900.7	5282.2	5108.3	4552.2	4199.5
17.5°	3700.2	3685.4	3697.8	3728.2	3823.8	4071.8	4651.9	5342.3	5308.5	4695.5	4258.8
20°	3781.0	3768.6	3770.3	3768.6	3835.4	4032.3	4478.8	5319.2	5483.2	4827.4	4316.5
22.5°	3976.2	3955.6	3956.5	3912.8	3949.1	4101.5	4433.5	5257.4	5638.9	4942.7	4360.2
25°	4294.3	4257.2	4264.6	4153.4	4143.5	4256.4	4504.4	5209.7	5793.8	5035.0	4368.4
27.5°	4729.3	4687.3	4665.0	4499.4	4420.3	4476.4	4648.6	5226.1	5940.5	5114.9	4347.8
30°	5273.1	5222.0	5176.7	4941.9	4798.5	4777.9	4872.7	5334.9	6113.5	5198.9	4312.4
32.5°	5939.6	5880.3	5797.9	5486.5	5284.6	5176.7	5162.7	5528.5	6316.2	5306.1	4294.3
35°	6733.1	6655.6	6538.6	6135.7	5880.3	5659.5	5545.0	5807.8	6593.8	5467.5	4314.9
37.5°	7550.4	7463.1	7356.0	6876.4	6562.5	6237.1	6011.3	6186.8	6963.8	5686.7	4369.3
40°	8304.3	8206.3	8106.6	7679.8	7342.8	6950.6	6582.3	6666.3	7416.1	5948.7	4461.5
42.5°	8749.2	8676.7	8638.8	8408.1	8147.8	7749.8	7292.5	7234.9	7924.5	6250.3	4567.0
45°	8729.4	8699.8	8816.8	8912.4	8850.6	8629.7	8124.7	7863.5	8434.5	6511.4	4664.2
47.5°	8263.1	8282.9	8544.1	9081.3	9317.7	9433.1	9072.2	8480.6	8877.7	6706.7	4707.9
50°	6994.3	7010.7	7615.5	8773.9	9438.0	10088.1	10012.3	9082.9	9221.3	6826.2	4698.0
52.5°	5989.9	6000.6	6260.2	7862.7	9040.9	10417.7	10859.3	9650.6	9472.6	6859.1	4642.8
55°	4511.8	4548.9	4839.7	6168.7	8007.7	10156.5	11375.1	10235.6	9631.6	6862.4	4585.1
57.5°	2635.7	2676.1	3035.3	4187.2	6223.9	9246.0	11453.3	10754.6	9739.6	6836.1	4550.5
60°	1291.1	1308.4	1464.9	2200.7	3837.8	7491.9	10823.9	11005.9	9799.7	6822.1	4548.9
62.5°	870.1	867.6	874.2	1085.9	1890.9	4813.3	9512.2	10566.0	9767.6	6768.5	4532.4
65°	748.1	739.1	714.3	762.1	979.6	2201.5	7349.4	9252.6	9522.9	6634.2	4419.5
67.5°	646.8	647.6	648.4	633.6	699.5	1015.9	4491.2	7288.4	8644.6	5998.1	3984.5
70°	535.5	543.0	546.3	546.3	570.2	666.6	1917.3	4995.4	6818.8	4702.9	3209.2
72.5°	487.8	472.1	473.8	465.5	465.5	507.5	772.0	2831.8	4295.9	2645.6	1958.5
75°	398.0	407.8	409.5	403.7	384.8	387.2	458.1	1188.1	1838.2	1097.5	968.1
77.5°	343.6	343.6	346.9	342.8	327.9	290.0	305.7	460.6	625.4	449.9	483.6
80°	276.0	275.2	289.2	297.4	274.4	214.2	195.3	254.6	277.7	197.7	251.3
82.5°	134.3	142.5	198.6	226.6	208.5	154.9	119.5	158.2	148.3	87.3	112.9
85°	78.3	74.2	89.0	126.1	119.5	85.7	57.7	82.4	77.4	44.5	45.3
87.5°	24.7	23.1	18.1	42.8	34.6	23.9	15.7	23.9	21.4	9.9	9.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5	3993.5
2.5°	3948.2	3851.0	3754.6	3666.4	3612.9	3578.3	3543.7	3505.0	3490.1	3467.9
5°	3908.7	3720.8	3553.6	3409.4	3278.4	3175.4	3071.6	2987.5	2949.6	2975.2
7.5°	3885.6	3613.7	3355.8	3091.4	2836.8	2633.3	2456.1	2331.7	2275.7	2289.7
10°	3865.0	3492.6	3099.6	2681.9	2316.0	2063.9	1882.7	1787.9	1752.5	1759.9
12.5°	3846.1	3356.7	2790.6	2241.1	1852.2	1685.7	1633.8	1634.7	1641.3	1646.2
15°	3842.8	3192.7	2445.4	1855.5	1601.7	1591.0	1647.0	1682.4	1701.4	1707.2
17.5°	3837.8	2996.6	2093.6	1592.6	1540.7	1613.2	1665.1	1688.2	1703.0	1703.9
20°	3818.1	2747.8	1769.0	1467.4	1527.5	1590.2	1622.3	1640.4	1652.8	1656.9
22.5°	3757.1	2470.9	1516.0	1411.4	1474.8	1525.1	1563.0	1583.6	1591.0	1595.9
25°	3647.5	2161.1	1341.3	1357.8	1401.5	1464.9	1495.4	1499.5	1497.1	1504.5
27.5°	3504.1	1829.1	1232.6	1285.3	1341.3	1395.7	1412.2	1409.7	1404.8	1413.0
30°	3331.1	1530.8	1163.4	1203.7	1280.4	1329.8	1344.6	1338.9	1329.0	1338.0
32.5°	3148.2	1287.0	1106.5	1146.9	1230.1	1278.7	1293.6	1287.8	1280.4	1287.8
35°	2977.7	1116.4	1053.8	1109.0	1190.6	1238.4	1257.3	1258.1	1258.1	1267.2
37.5°	2821.1	1016.7	1010.1	1085.1	1163.4	1206.2	1233.4	1235.1	1199.6	1202.1
40°	2676.1	974.7	990.4	1069.4	1137.0	1178.2	1179.9	1087.6	1022.5	1020.8
42.5°	2557.5	966.5	996.1	1067.8	1118.1	1119.7	1003.5	931.9	913.7	914.6
45°	2446.2	964.0	1009.3	1067.8	1090.0	967.3	889.0	870.1	871.7	878.3
47.5°	2321.8	954.1	1011.8	1053.0	1009.3	860.2	837.1	828.9	825.6	827.2
50°	2185.9	918.7	980.5	1023.3	870.9	814.0	785.2	782.7	786.8	789.3
52.5°	2042.5	861.0	926.9	969.8	807.4	773.7	741.5	747.3	765.4	771.2
55°	1948.6	793.4	856.1	862.6	763.0	735.8	708.6	721.8	755.5	766.2
57.5°	1923.9	721.8	775.3	767.9	706.1	702.8	686.3	697.9	740.7	756.4
60°	1916.4	657.5	696.2	690.4	650.9	666.6	662.4	668.2	683.0	688.0
62.5°	1858.8	606.4	625.4	617.1	601.5	628.7	638.5	626.2	637.7	643.5
65°	1712.1	565.2	556.1	550.4	557.0	581.7	601.5	576.7	587.5	603.9
67.5°	1469.9	509.2	484.5	491.1	511.7	524.8	550.4	522.4	531.4	559.4
70°	1188.9	438.3	416.1	435.0	454.8	482.0	486.1	467.2	488.6	519.9
72.5°	841.2	366.6	351.0	389.7	396.3	431.7	422.7	413.6	443.3	454.0
75°	583.3	295.8	286.7	316.4	340.3	370.8	364.2	374.9	437.5	442.4
77.5°	369.1	229.9	224.1	243.1	276.0	309.8	320.5	442.4	747.3	777.0
80°	214.2	171.4	164.8	179.6	208.5	239.8	309.0	543.0	492.7	486.9
82.5°	119.5	117.8	109.6	113.7	139.2	173.0	436.7	382.3	310.6	320.5
85°	56.0	69.2	59.3	56.9	78.3	202.7	291.7	218.3	145.0	141.7
87.5°	14.8	13.2	13.2	14.8	33.0	174.7	116.2	93.1	55.2	53.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)