

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: P950191

Luminaire Tested: **GALN-SB4D-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33487 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 293.6
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

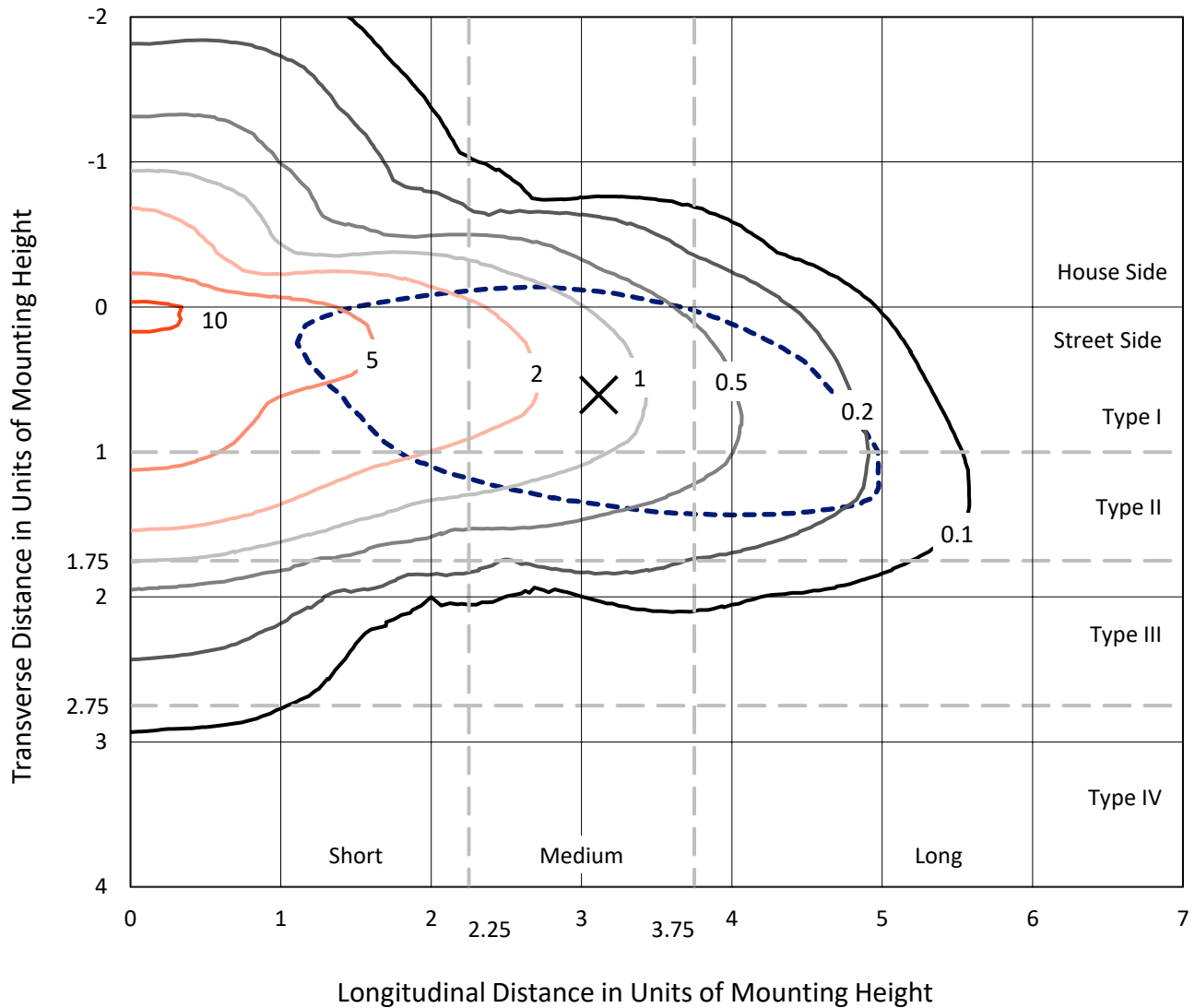


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Iso-Footcandle Lines of Horizontal Illumination

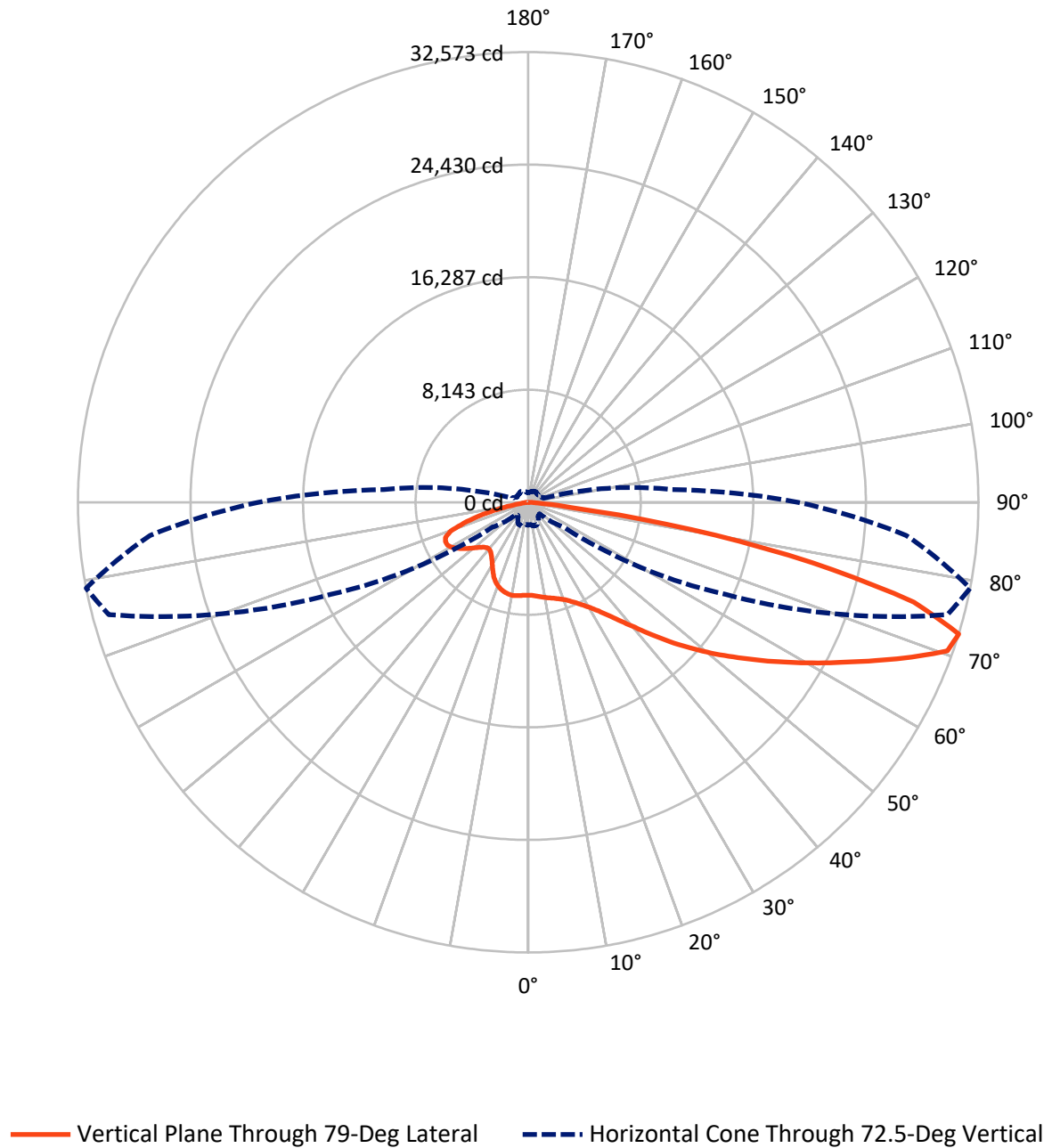
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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	7369.0	0.0	7369.0
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	26118.0	0.0	26118.0
	% Fixture	78.0	0.0	78.0
Total	Lumens	33487.0	0.0	33487.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	610.2	1.8
10°-20°	1595.3	4.8
20°-30°	2574.2	7.7
30°-40°	3863.5	11.5
40°-50°	5480.6	16.4
50°-60°	6921.3	20.7
60°-70°	7029.5	21.0
70°-80°	4790.9	14.3
80°-90°	621.6	1.9
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°	33487.0	100.0
0°-180°	33487.0	100.0

Coefficient of Utilization



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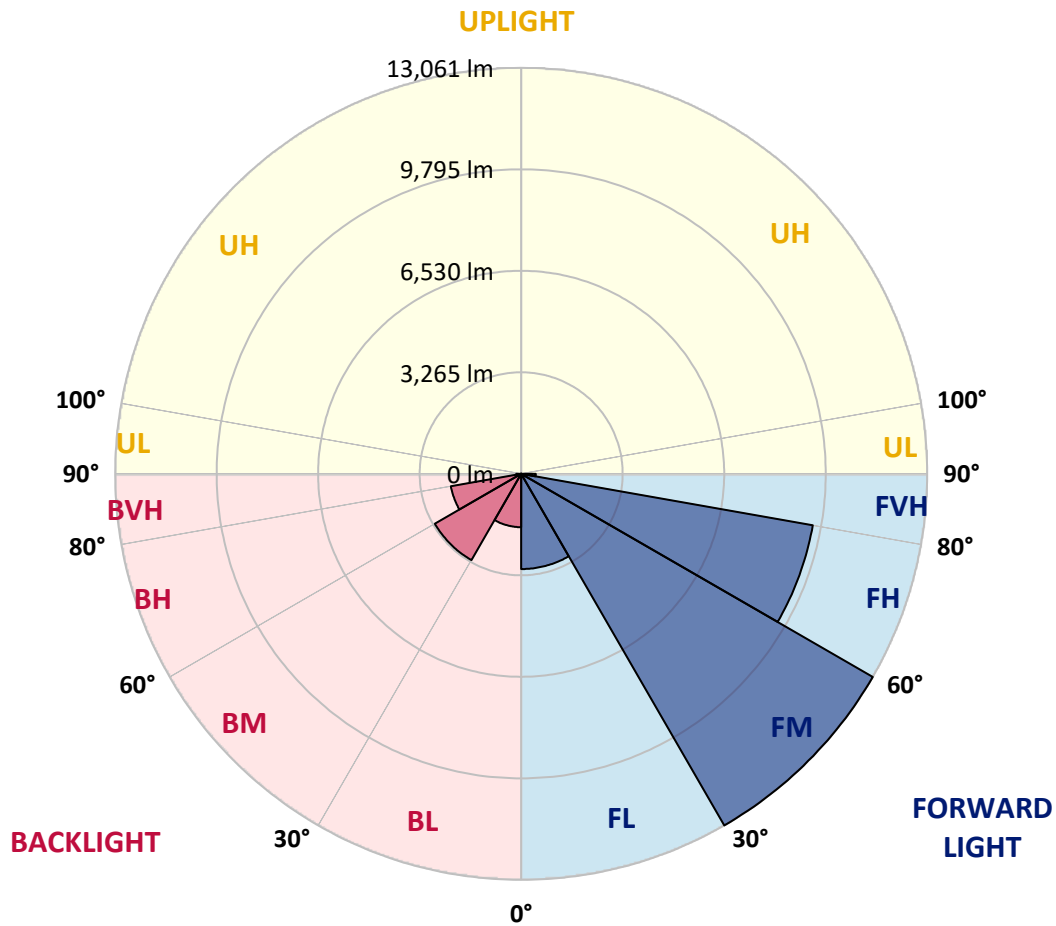
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3063.2	9.1			
FM	(30°-60°)	13060.6	39.0			
FH	(60°-80°)	9525.9	28.4			G4/12000
FVH	(80°-90°)	468.2	1.4			G3/500
BL	(0°-30°)	1716.5	5.1	B3/2500		
BM	(30°-60°)	3204.7	9.6	B3/5000		
BH	(60°-80°)	2294.5	6.9	B3/2500		G3/2500
BVH	(80°-90°)	153.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2
2.5°	6725.7	6693.9	6713.3	6706.3	6715.1	6725.7	6729.3	6734.6	6752.3	6750.5	6748.8
5°	6711.6	6679.7	6706.3	6697.4	6720.4	6745.2	6766.5	6786.0	6814.3	6826.7	6809.0
7.5°	6681.5	6660.2	6686.8	6713.3	6755.9	6793.1	6823.2	6867.4	6908.2	6915.3	6927.7
10°	6506.1	6490.2	6552.1	6621.2	6738.1	6839.1	6904.6	6956.0	7000.3	7007.4	7025.1
12.5°	6323.6	6304.2	6373.2	6467.1	6656.7	6839.1	6977.3	7044.6	7083.5	7106.6	7133.1
15°	6293.5	6277.6	6316.6	6398.0	6555.7	6791.3	7026.9	7150.9	7184.5	7211.1	7221.7
17.5°	6438.8	6408.7	6424.6	6453.0	6545.1	6747.0	7065.8	7271.3	7322.7	7351.0	7351.0
20°	6775.3	6732.8	6708.0	6651.3	6635.4	6754.1	7062.3	7416.6	7483.9	7519.3	7528.2
22.5°	7223.5	7195.1	7142.0	6998.5	6842.6	6840.9	7129.6	7602.5	7728.3	7762.0	7740.7
25°	7765.5	7723.0	7655.7	7460.8	7161.5	7012.7	7243.0	7839.9	8050.7	8059.6	7997.6
27.5°	8389.0	8325.3	8233.1	7976.3	7572.4	7281.9	7416.6	8112.7	8420.9	8417.4	8289.8
30°	9046.2	8982.4	8885.0	8573.2	8064.9	7645.1	7657.5	8406.7	8860.2	8840.7	8622.8
32.5°	9526.2	9478.4	9458.9	9218.0	8631.7	8073.7	7933.8	8732.7	9402.2	9384.5	9079.8
35°	9894.6	9832.7	9855.7	9733.5	9249.9	8553.8	8272.1	9120.6	10061.2	10059.4	9680.3
37.5°	10259.5	10204.6	10224.1	10142.6	9822.0	9163.1	8684.8	9595.3	10877.7	10916.7	10406.6
40°	10592.6	10534.1	10612.0	10535.9	10266.6	9811.4	9154.2	10132.0	11823.6	11898.0	11285.1
42.5°	10792.7	10746.7	10876.0	10877.7	10652.8	10358.7	9669.7	10723.6	12918.3	13084.8	12365.7
45°	10861.8	10845.9	11040.7	11081.4	10994.6	10675.8	10133.8	11368.4	14098.0	14395.6	13596.7
47.5°	10787.4	10757.3	11026.5	11177.1	11246.2	10824.6	10518.2	12066.3	15302.5	15738.3	14939.4
50°	10411.9	10353.4	10753.7	11070.8	11317.0	10922.0	10906.1	12872.3	16671.8	17148.2	16289.1
52.5°	9737.0	9692.7	10147.9	10698.8	11161.1	10969.8	11341.8	13752.6	17971.9	18588.3	17672.6
55°	8874.4	8815.9	9317.2	10036.4	10773.2	10953.9	11777.6	14737.5	19505.9	20131.2	19102.0
57.5°	7506.9	7390.0	8024.1	8874.4	10140.9	10934.4	12231.0	15717.0	21064.7	21813.9	20627.1
60°	5512.4	5338.8	6116.4	7124.3	8904.5	10744.9	12792.5	16815.2	22935.2	23610.1	22292.2
62.5°	3209.6	3108.7	3617.1	4557.6	6711.6	9628.9	13107.8	18092.4	24773.8	25482.4	23928.9
65°	2492.3	2463.9	2508.2	2580.8	3735.7	7209.3	12135.4	19337.6	27112.0	27607.9	25634.7
67.5°	2279.7	2258.4	2277.9	2141.5	1895.3	4015.6	9600.6	19652.9	29616.6	29917.8	27127.9
70°	2026.4	2001.6	2065.4	1948.5	1491.5	1826.2	6203.2	18508.6	31609.4	32174.4	28263.3
72.5°	1650.9	1622.5	1771.3	1718.2	1255.9	1172.6	3115.8	15789.6	31400.4	32573.0	27450.3
75°	1268.3	1252.3	1429.5	1473.7	1023.8	922.9	1495.0	11736.8	27632.7	28814.2	23657.9
77.5°	984.9	972.5	1062.8	1224.0	825.4	715.6	919.3	7444.9	20823.8	21031.0	16303.3
80°	738.6	703.2	786.5	947.7	643.0	522.5	623.5	4341.5	13162.8	11931.7	7095.9
82.5°	462.3	444.6	513.7	632.4	453.5	359.6	405.6	2398.4	5275.0	3106.9	1369.2
85°	263.9	256.8	279.9	361.4	246.2	207.2	232.0	1059.3	963.6	662.5	412.7
87.5°	106.3	102.7	127.5	161.2	90.3	76.2	81.5	255.1	212.6	196.6	136.4
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°	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2	6722.2
2.5°	6741.7	6741.7	6716.9	6677.9	6633.6	6605.3	6559.2	6546.8	6499.0	6484.8	6507.9
5°	6823.2	6809.0	6732.8	6623.0	6472.4	6334.3	6181.9	6086.3	5951.7	5903.8	5939.3
7.5°	6925.9	6886.9	6755.9	6515.0	6199.7	5889.7	5567.3	5322.8	5089.0	5005.8	5016.4
10°	7019.8	6964.9	6741.7	6320.1	5774.5	5237.8	4724.1	4364.6	4091.8	3980.2	4005.0
12.5°	7113.7	7012.7	6647.8	5996.0	5170.5	4442.5	3895.2	3615.3	3447.0	3312.4	3356.7
15°	7202.2	7060.5	6502.6	5562.0	4508.0	3769.4	3365.5	3142.3	3007.7	2919.2	2935.1
17.5°	7305.0	7101.3	6284.7	5011.1	3877.4	3303.5	2974.1	2839.4	2812.9	2802.2	2809.3
20°	7448.4	7138.5	5997.7	4394.7	3413.4	2931.6	2761.5	2749.1	2747.3	2742.0	2759.7
22.5°	7602.5	7182.7	5618.7	3834.9	3018.3	2699.5	2669.4	2644.6	2628.7	2626.9	2646.4
25°	7785.0	7196.9	5143.9	3376.2	2681.8	2589.7	2554.3	2517.1	2506.4	2506.4	2517.1
27.5°	7962.1	7149.1	4591.3	2977.6	2492.3	2488.7	2442.7	2430.3	2428.5	2433.8	2448.0
30°	8139.3	7058.7	4042.2	2609.2	2382.4	2382.4	2366.5	2375.4	2382.4	2400.2	2412.6
32.5°	8378.4	6963.1	3583.4	2336.4	2286.8	2269.1	2285.0	2302.7	2309.8	2332.8	2352.3
35°	8729.1	6895.8	3218.5	2187.6	2187.6	2164.6	2173.4	2169.9	2153.9	2143.3	2168.1
37.5°	9193.2	6892.2	2917.4	2118.5	2104.3	2100.8	2102.6	2079.5	2017.5	1943.1	1944.9
40°	9751.2	6987.9	2685.3	2070.7	2060.1	2081.3	2070.7	2008.7	1838.6	1709.3	1705.8
42.5°	10500.4	7260.7	2536.5	2012.2	2044.1	2070.7	2028.2	1813.8	1698.7	1611.9	1608.4
45°	11382.6	7703.5	2460.4	1950.2	2014.0	2045.9	1840.4	1746.5	1654.4	1549.9	1542.8
47.5°	12381.6	8261.5	2442.7	1891.8	1946.7	1966.2	1760.7	1718.2	1613.7	1500.3	1491.5
50°	13469.2	8922.2	2490.5	1822.7	1849.3	1782.0	1734.1	1695.2	1587.1	1475.5	1463.1
52.5°	14594.0	9650.2	2586.1	1728.8	1751.8	1677.4	1723.5	1689.8	1571.2	1420.6	1410.0
55°	15699.3	10383.5	2678.3	1619.0	1652.7	1583.6	1693.4	1668.6	1498.5	1328.5	1319.6
57.5°	16822.3	11113.3	2768.6	1521.6	1557.0	1493.2	1645.6	1611.9	1417.1	1243.5	1239.9
60°	17989.6	11821.9	2811.1	1427.7	1452.5	1410.0	1572.9	1514.5	1325.0	1156.7	1151.4
62.5°	19082.5	12411.7	2742.0	1333.8	1349.8	1332.0	1477.3	1399.4	1232.8	1059.3	1057.5
65°	20179.0	12762.4	2529.5	1241.7	1245.2	1236.4	1342.7	1275.4	1124.8	974.2	963.6
67.5°	21172.7	12959.0	2191.1	1142.5	1133.7	1130.1	1216.9	1140.7	1020.3	889.2	878.6
70°	21383.5	12459.5	1673.9	1025.6	1025.6	1016.7	1078.7	1000.8	905.1	798.9	795.3
72.5°	19530.7	10481.0	1188.6	892.8	906.9	889.2	940.6	875.0	788.2	717.4	696.1
75°	15748.9	7685.8	864.4	756.4	781.2	751.0	798.9	752.8	678.4	676.6	609.3
77.5°	10821.1	4752.5	627.1	623.5	641.2	602.3	657.2	632.4	565.1	534.9	501.3
80°	4617.9	1895.3	457.0	481.8	481.8	446.4	510.1	517.2	458.8	444.6	444.6
82.5°	919.3	538.5	320.6	331.2	311.8	301.1	361.4	400.3	552.7	614.7	616.4
85°	276.3	198.4	193.1	180.7	159.4	161.2	212.6	402.1	496.0	283.4	244.4
87.5°	76.2	49.6	51.4	40.7	33.7	44.3	72.6	304.7	166.5	70.9	60.2
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)