

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: P949855

Luminaire Tested: **GALN-SB4C-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949855
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-SB4C-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27671 lumens
Efficiency: N/A
Efficacy: 137.9 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): 200.7
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

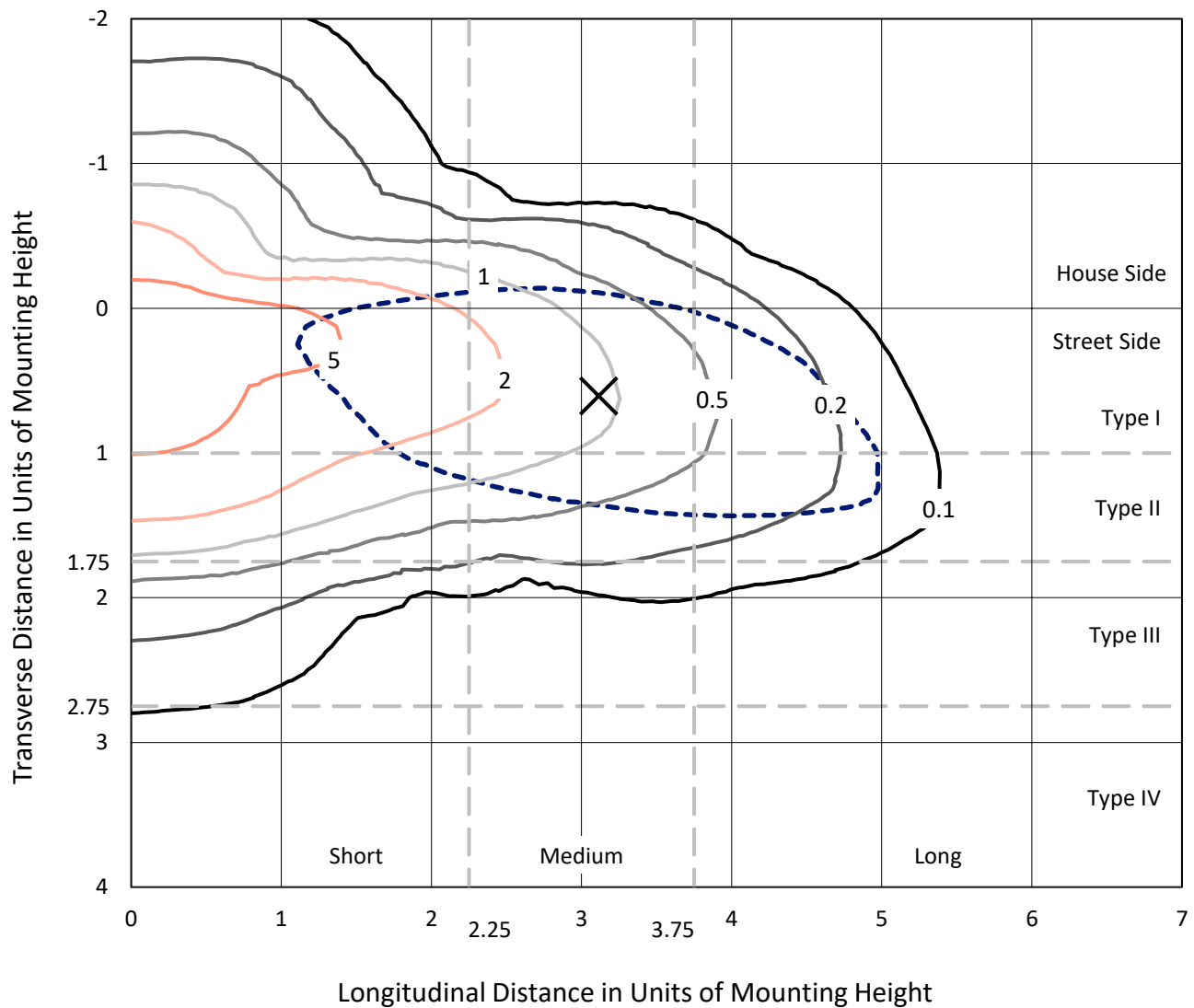


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

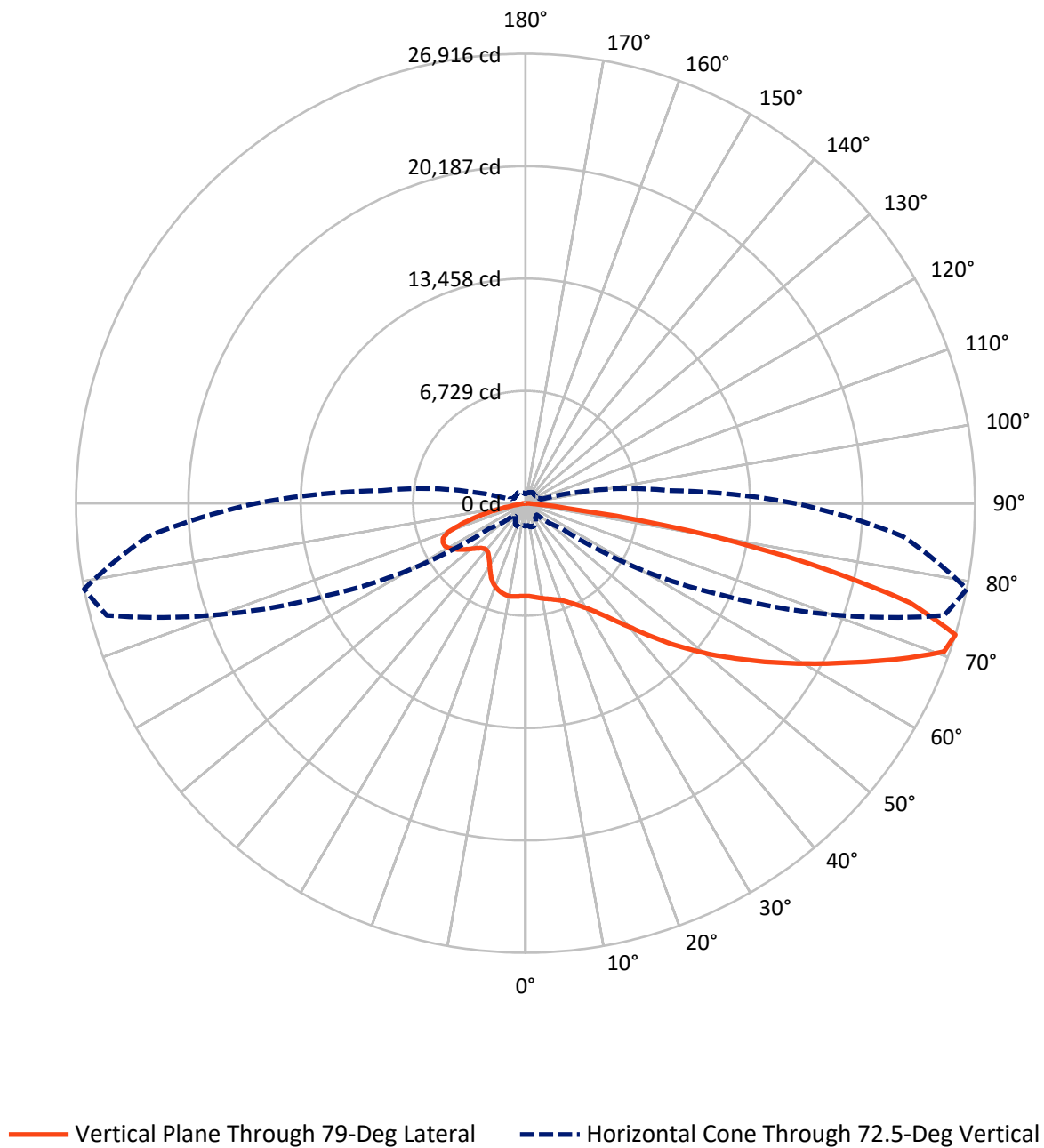


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6089.1	0.0	6089.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21581.9	0.0	21581.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	27671.0	0.0	27671.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.2	1.8
10°-20°	1318.2	4.8
20°-30°	2127.1	7.7
30°-40°	3192.5	11.5
40°-50°	4528.7	16.4
50°-60°	5719.2	20.7
60°-70°	5808.6	21.0
70°-80°	3958.8	14.3
80°-90°	513.6	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°	27671.0	100.0
0°-180°	27671.0	100.0

Coefficient of Utilization



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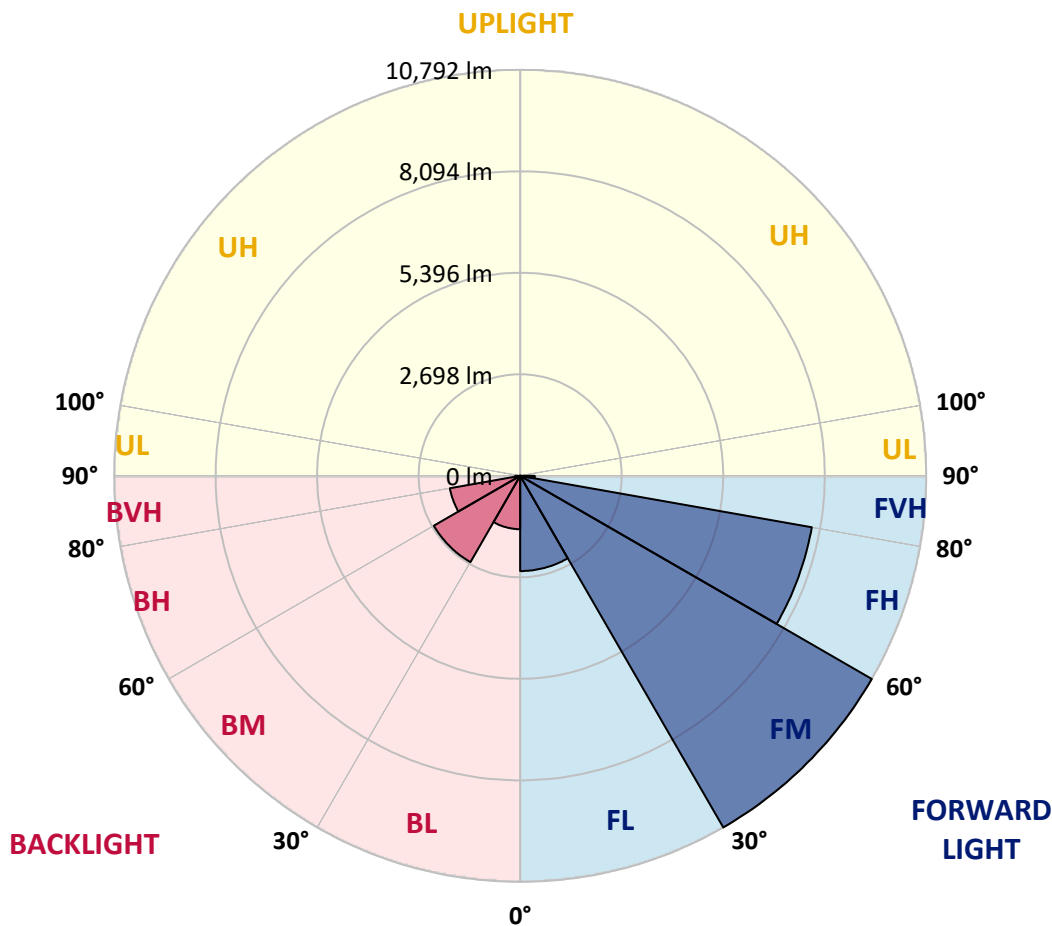
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2531.2	9.1			
FM	(30°-60°)	10792.3	39.0			
FH	(60°-80°)	7871.5	28.4			G4/12000
FVH	(80°-90°)	386.9	1.4			G3/500
BL	(0°-30°)	1418.3	5.1	B3/2500		
BM	(30°-60°)	2648.1	9.6	B3/5000		
BH	(60°-80°)	1896.0	6.9	B3/2500		G3/2500
BVH	(80°-90°)	126.7	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°	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7
2.5°	5557.6	5531.3	5547.4	5541.5	5548.8	5557.6	5560.5	5564.9	5579.6	5578.1	5576.6
5°	5545.9	5519.6	5541.5	5534.2	5553.2	5573.7	5591.3	5607.4	5630.8	5641.0	5626.4
7.5°	5521.0	5503.5	5525.4	5547.4	5582.5	5613.2	5638.1	5674.7	5708.4	5714.2	5724.5
10°	5376.1	5362.9	5414.2	5471.3	5567.9	5651.3	5705.4	5747.9	5784.5	5790.3	5805.0
12.5°	5225.4	5209.3	5266.3	5343.9	5500.5	5651.3	5765.5	5821.1	5853.3	5872.3	5894.3
15°	5200.5	5187.3	5219.5	5286.8	5417.1	5611.8	5806.4	5908.9	5936.7	5958.7	5967.4
17.5°	5320.5	5295.6	5308.8	5332.2	5408.3	5575.2	5838.6	6008.4	6050.9	6074.3	6074.3
20°	5598.6	5563.5	5543.0	5496.1	5483.0	5581.0	5835.7	6128.5	6184.1	6213.3	6220.7
22.5°	5968.9	5945.5	5901.6	5783.0	5654.2	5652.8	5891.3	6282.1	6386.1	6413.9	6396.3
25°	6416.8	6381.7	6326.1	6165.0	5917.7	5794.7	5985.0	6478.3	6652.5	6659.8	6608.5
27.5°	6932.0	6879.3	6803.2	6591.0	6257.3	6017.2	6128.5	6703.7	6958.4	6955.4	6850.1
30°	7475.0	7422.4	7341.9	7084.2	6664.2	6317.3	6327.5	6946.7	7321.4	7305.3	7125.2
32.5°	7871.7	7832.2	7816.1	7617.0	7132.5	6671.5	6555.9	7216.0	7769.2	7754.6	7502.9
35°	8176.2	8124.9	8144.0	8043.0	7643.4	7068.1	6835.4	7536.5	8313.7	8312.3	7999.0
37.5°	8477.7	8432.3	8448.4	8381.1	8116.1	7571.7	7176.5	7928.8	8988.5	9020.7	8599.2
40°	8752.8	8704.5	8768.9	8706.0	8483.5	8107.4	7564.3	8372.3	9770.1	9831.6	9325.1
42.5°	8918.2	8880.2	8987.0	8988.5	8802.6	8559.6	7990.3	8861.2	10674.7	10812.3	10218.0
45°	8975.3	8962.2	9123.2	9156.8	9085.1	8821.6	8373.8	9393.9	11649.5	11895.4	11235.3
47.5°	8913.9	8889.0	9111.4	9235.9	9292.9	8944.6	8691.4	9970.6	12644.8	13004.9	12344.7
50°	8603.5	8555.2	8886.0	9148.0	9351.5	9025.1	9011.9	10636.6	13776.2	14169.9	13460.1
52.5°	8045.9	8009.3	8385.5	8840.7	9222.7	9064.6	9372.0	11364.1	14850.6	15359.9	14603.2
55°	7333.1	7284.8	7699.0	8293.2	8902.1	9051.4	9732.1	12177.9	16118.1	16634.8	15784.4
57.5°	6203.1	6106.5	6630.5	7333.1	8379.6	9035.3	10106.8	12987.3	17406.2	18025.3	17044.6
60°	4555.0	4411.6	5054.1	5886.9	7358.0	8878.7	10570.7	13894.8	18951.8	19509.5	18420.5
62.5°	2652.2	2568.8	2988.8	3766.1	5545.9	7956.6	10831.3	14950.1	20471.1	21056.6	19772.9
65°	2059.4	2036.0	2072.6	2132.6	3086.9	5957.2	10027.7	15979.1	22403.2	22813.0	21182.5
67.5°	1883.8	1866.2	1882.3	1769.6	1566.1	3318.2	7933.2	16239.6	24472.8	24721.7	22416.4
70°	1674.5	1654.0	1706.7	1610.1	1232.4	1509.1	5125.8	15294.1	26119.5	26586.4	23354.6
72.5°	1364.2	1340.7	1463.7	1419.8	1037.8	969.0	2574.6	13047.3	25946.8	26915.7	22682.7
75°	1048.0	1034.8	1181.2	1217.8	846.0	762.6	1235.4	9698.4	22833.5	23809.8	19549.0
77.5°	813.8	803.6	878.2	1011.4	682.1	591.3	759.7	6151.9	17207.1	17378.3	13471.8
80°	610.4	581.1	649.9	783.1	531.3	431.8	515.2	3587.5	10876.7	9859.4	5863.5
82.5°	382.0	367.4	424.5	522.5	374.7	297.1	335.2	1981.8	4358.9	2567.3	1131.4
85°	218.1	212.2	231.3	298.6	203.5	171.3	191.7	875.3	796.2	547.4	341.0
87.5°	87.8	84.9	105.4	133.2	74.6	62.9	67.3	210.8	175.6	162.5	112.7
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°	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7	5554.7
2.5°	5570.8	5570.8	5550.3	5518.1	5481.5	5458.1	5420.0	5409.8	5370.3	5358.6	5377.6
5°	5638.1	5626.4	5563.5	5472.7	5348.3	5234.1	5108.3	5029.2	4918.0	4878.5	4907.7
7.5°	5723.0	5690.8	5582.5	5383.4	5122.9	4866.8	4600.4	4398.4	4205.2	4136.4	4145.2
10°	5800.6	5755.2	5570.8	5222.4	4771.6	4328.1	3903.7	3606.5	3381.1	3288.9	3309.4
12.5°	5878.2	5794.7	5493.2	4954.6	4272.5	3670.9	3218.6	2987.4	2848.3	2737.1	2773.7
15°	5951.3	5834.3	5373.2	4596.0	3725.1	3114.7	2781.0	2596.6	2485.3	2412.2	2425.3
17.5°	6036.2	5867.9	5193.2	4140.8	3204.0	2729.8	2457.5	2346.3	2324.3	2315.6	2321.4
20°	6154.8	5898.7	4956.0	3631.4	2820.5	2422.4	2281.9	2271.6	2270.2	2265.8	2280.4
22.5°	6282.1	5935.2	4642.8	3168.9	2494.1	2230.7	2205.8	2185.3	2172.1	2170.6	2186.7
25°	6432.9	5947.0	4250.5	2789.8	2216.0	2139.9	2110.6	2079.9	2071.1	2071.1	2079.9
27.5°	6579.3	5907.4	3793.9	2460.5	2059.4	2056.5	2018.4	2008.2	2006.7	2011.1	2022.8
30°	6725.6	5832.8	3340.1	2156.0	1968.7	1968.7	1955.5	1962.8	1968.7	1983.3	1993.5
32.5°	6923.2	5753.8	2961.0	1930.6	1889.6	1875.0	1888.2	1902.8	1908.6	1927.7	1943.8
35°	7213.0	5698.1	2659.5	1807.7	1807.7	1788.6	1795.9	1793.0	1779.8	1771.1	1791.6
37.5°	7596.5	5695.2	2410.7	1750.6	1738.9	1735.9	1737.4	1718.4	1667.1	1605.7	1607.1
40°	8057.6	5774.2	2218.9	1711.0	1702.3	1719.8	1711.0	1659.8	1519.3	1412.5	1409.5
42.5°	8676.7	5999.7	2096.0	1662.7	1689.1	1711.0	1675.9	1498.8	1403.7	1332.0	1329.0
45°	9405.6	6365.6	2033.1	1611.5	1664.2	1690.6	1520.8	1443.2	1367.1	1280.7	1274.9
47.5°	10231.2	6826.6	2018.4	1563.2	1608.6	1624.7	1454.9	1419.8	1333.4	1239.7	1232.4
50°	11129.9	7372.6	2057.9	1506.1	1528.1	1472.5	1432.9	1400.7	1311.5	1219.3	1209.0
52.5°	12059.3	7974.2	2137.0	1428.6	1447.6	1386.1	1424.2	1396.4	1298.3	1173.9	1165.1
55°	12972.7	8580.1	2213.1	1337.8	1365.6	1308.5	1399.3	1378.8	1238.3	1097.8	1090.4
57.5°	13900.6	9183.2	2287.7	1257.3	1286.6	1233.9	1359.8	1332.0	1170.9	1027.5	1024.6
60°	14865.2	9768.6	2322.9	1179.7	1200.2	1165.1	1299.8	1251.5	1094.8	955.8	951.4
62.5°	15768.3	10256.1	2265.8	1102.2	1115.3	1100.7	1220.7	1156.3	1018.7	875.3	873.8
65°	16674.3	10545.9	2090.1	1026.0	1029.0	1021.7	1109.5	1053.9	929.4	805.0	796.2
67.5°	17495.4	10708.3	1810.6	944.1	936.8	933.8	1005.6	942.6	843.1	734.8	726.0
70°	17669.6	10295.6	1383.2	847.5	847.5	840.2	891.4	827.0	747.9	660.1	657.2
72.5°	16138.6	8660.6	982.1	737.7	749.4	734.8	777.2	723.1	651.3	592.8	575.2
75°	13013.6	6350.9	714.3	625.0	645.5	620.6	660.1	622.1	560.6	559.1	503.5
77.5°	8941.7	3927.1	518.1	515.2	529.9	497.7	543.0	522.5	466.9	442.0	414.2
80°	3815.8	1566.1	377.6	398.1	398.1	368.8	421.5	427.4	379.1	367.4	367.4
82.5°	759.7	445.0	264.9	273.7	257.6	248.8	298.6	330.8	456.7	507.9	509.4
85°	228.3	163.9	159.5	149.3	131.7	133.2	175.6	332.3	409.8	234.2	202.0
87.5°	62.9	41.0	42.4	33.7	27.8	36.6	60.0	251.8	137.6	58.5	49.8
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)