

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: P955210

Luminaire Tested: **GALN-SB8B-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955210
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-SB8B-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41978 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G4

Input Watts (W): 292.8
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



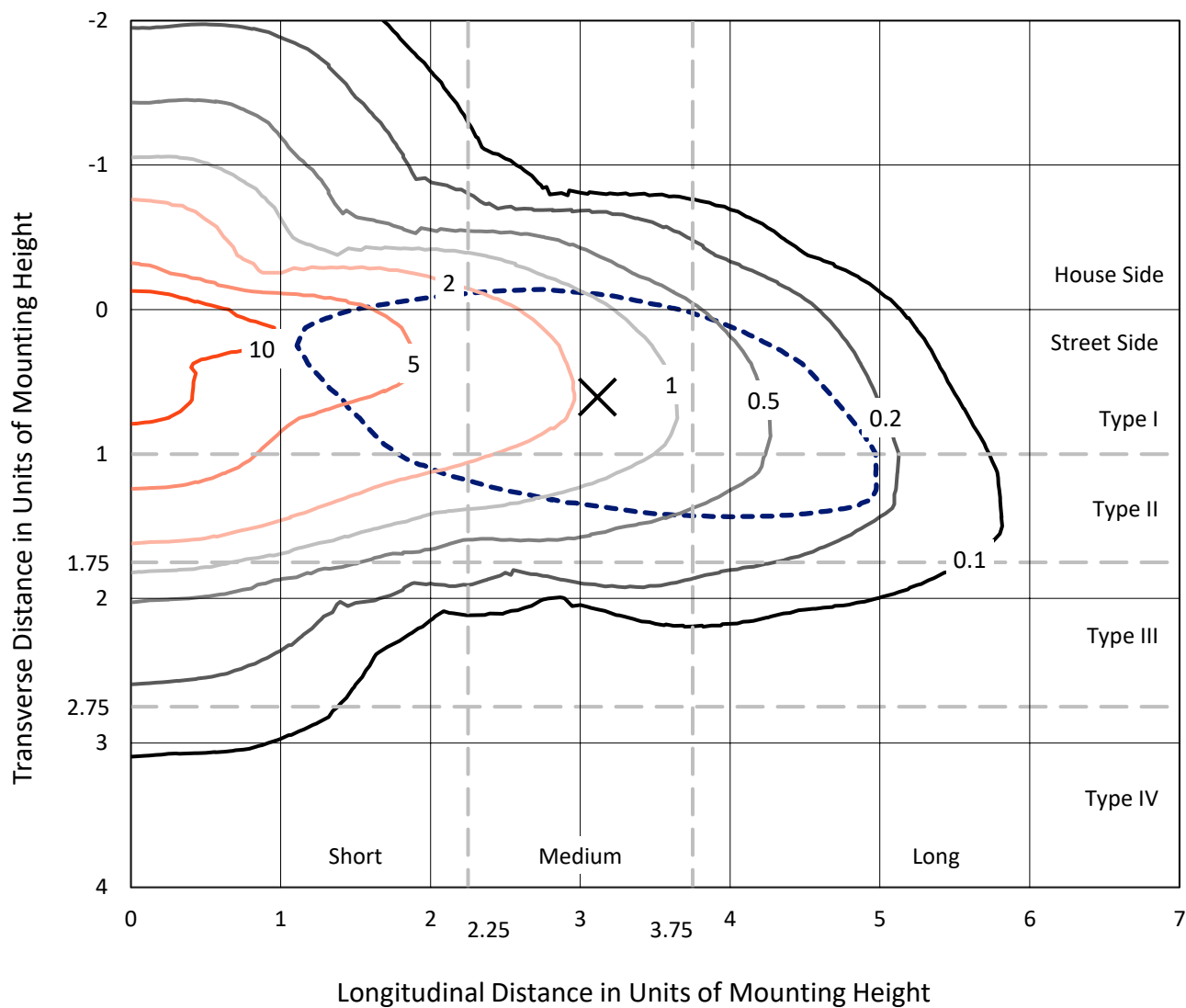
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

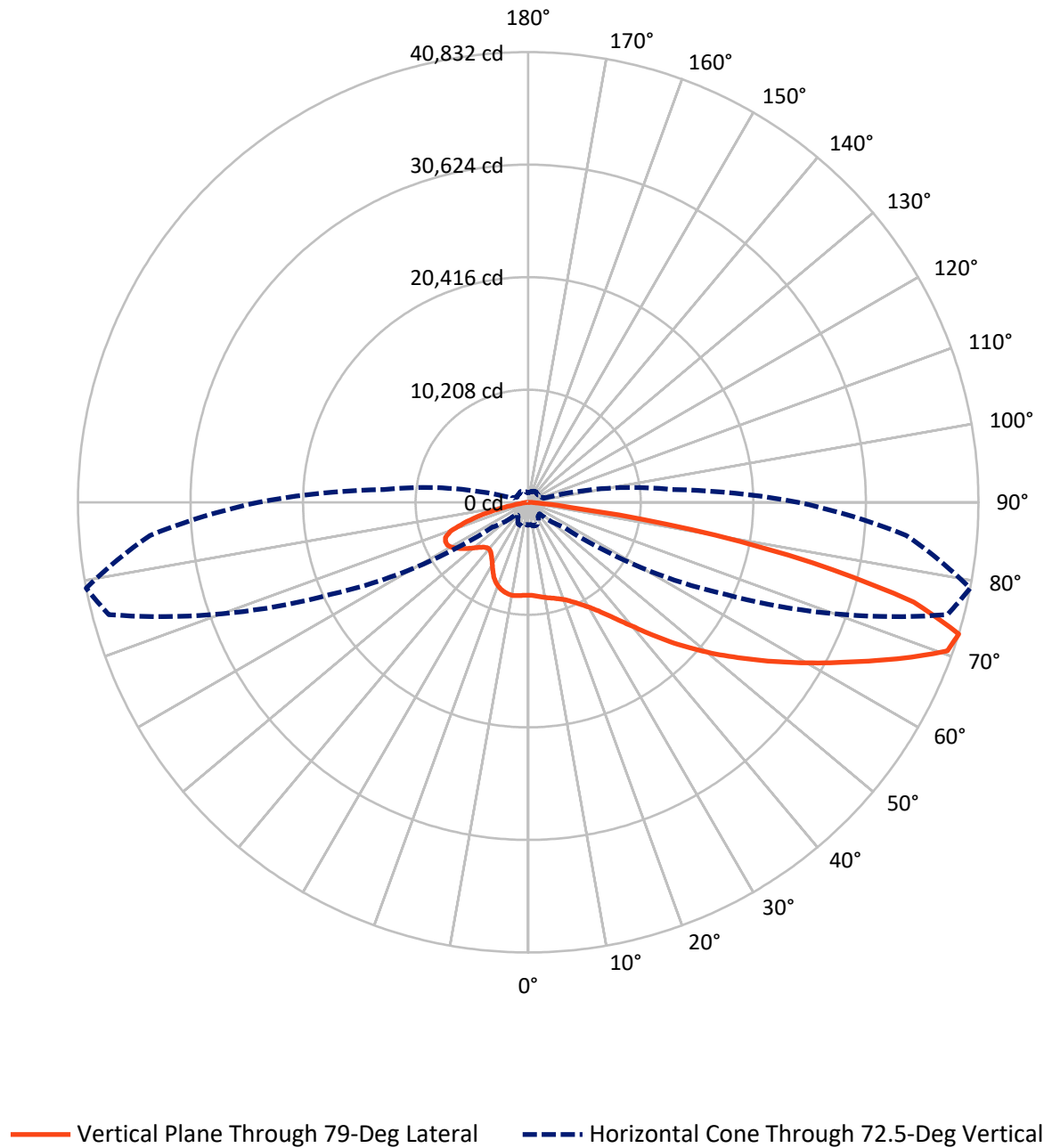
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 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	9237.5	0.0	9237.5
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	32740.5	0.0	32740.5
	% Fixture	78.0	0.0	78.0
Total	Lumens	41978.0	0.0	41978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	764.9	1.8
10°-20°	1999.8	4.8
20°-30°	3226.9	7.7
30°-40°	4843.1	11.5
40°-50°	6870.3	16.4
50°-60°	8676.2	20.7
60°-70°	8811.9	21.0
70°-80°	6005.7	14.3
80°-90°	779.2	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°	41978.0	100.0
0°-180°	41978.0	100.0

Coefficient of Utilization



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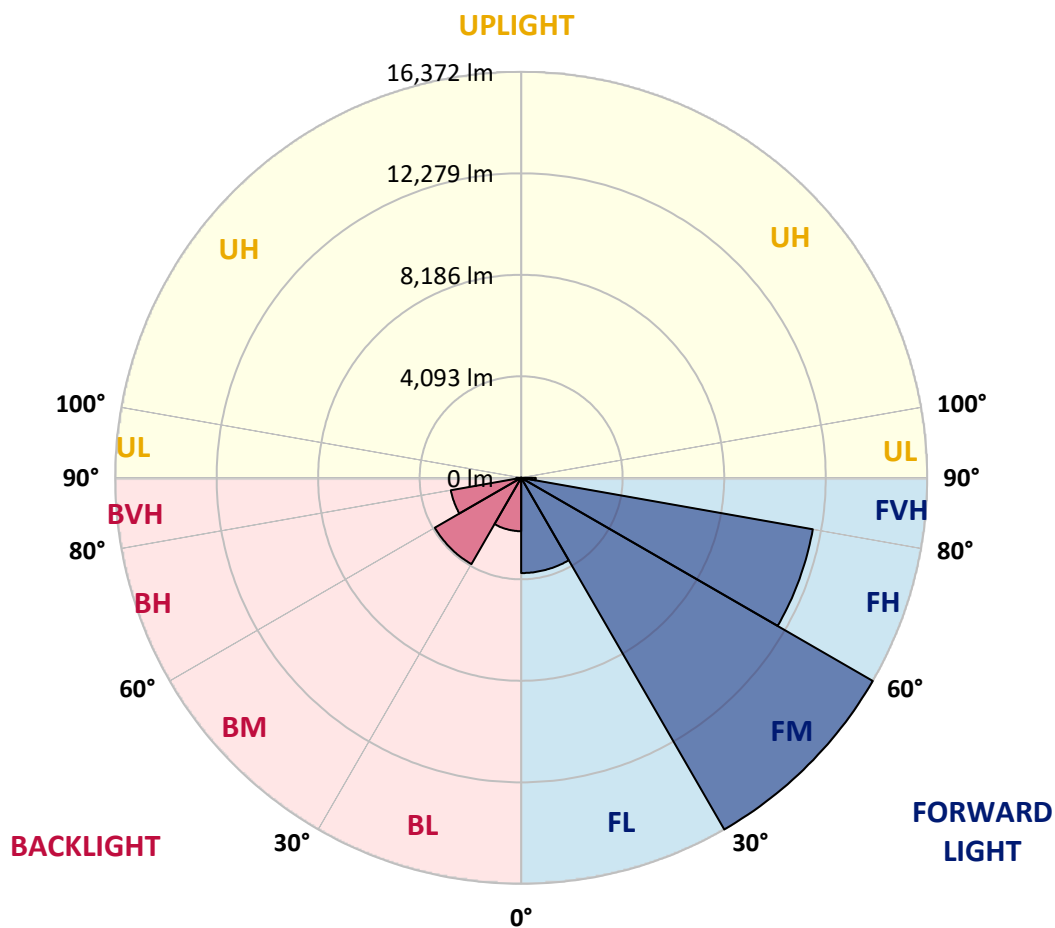
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3840.0	9.1			
FM	(30°-60°)	16372.3	39.0			
FH	(60°-80°)	11941.3	28.4			G4/12000
FVH	(80°-90°)	587.0	1.4			G4/750
BL	(0°-30°)	2151.7	5.1	B3/2500		
BM	(30°-60°)	4017.3	9.6	B3/5000		
BH	(60°-80°)	2876.2	6.9	B4/5000		G4/5000
BVH	(80°-90°)	192.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7
2.5°	8431.1	8391.2	8415.6	8406.7	8417.8	8431.1	8435.6	8442.2	8464.4	8462.2	8460.0
5°	8413.4	8373.4	8406.7	8395.6	8424.5	8455.6	8482.2	8506.6	8542.1	8557.7	8535.5
7.5°	8375.6	8349.0	8382.3	8415.6	8468.9	8515.5	8553.3	8608.8	8659.8	8668.7	8684.3
10°	8155.8	8135.8	8213.5	8300.1	8446.7	8573.2	8655.4	8719.8	8775.3	8784.2	8806.4
12.5°	7927.1	7902.7	7989.3	8106.9	8344.5	8573.2	8746.4	8830.8	8879.7	8908.5	8941.8
15°	7889.3	7869.3	7918.2	8020.3	8218.0	8513.3	8808.6	8964.0	9006.2	9039.5	9052.9
17.5°	8071.4	8033.7	8053.6	8089.2	8204.6	8457.8	8857.5	9115.0	9179.4	9215.0	9215.0
20°	8493.3	8440.0	8408.9	8337.9	8317.9	8466.7	8853.0	9297.1	9381.5	9425.9	9437.0
22.5°	9055.1	9019.5	8952.9	8773.1	8577.7	8575.5	8937.4	9530.3	9687.9	9730.1	9703.5
25°	9734.5	9681.3	9596.9	9352.6	8977.4	8790.8	9079.5	9827.8	10092.0	10103.1	10025.4
27.5°	10516.1	10436.2	10320.7	9998.8	9492.5	9128.4	9297.1	10169.8	10556.1	10551.7	10391.8
30°	11339.9	11260.0	11137.9	10747.1	10109.8	9583.5	9599.1	10538.4	11106.8	11082.4	10809.2
32.5°	11941.7	11881.7	11857.3	11555.3	10820.4	10120.9	9945.5	10946.9	11786.3	11764.1	11382.1
35°	12403.5	12325.8	12354.7	12201.5	11595.3	10722.7	10369.6	11433.2	12612.3	12610.1	12134.9
37.5°	12861.0	12792.1	12816.6	12714.4	12312.5	11486.5	10887.0	12028.3	13635.9	13684.8	13045.3
40°	13278.4	13205.1	13302.8	13207.4	12869.8	12299.2	11475.4	12701.1	14821.6	14914.9	14146.6
42.5°	13529.3	13471.6	13633.7	13635.9	13353.9	12985.3	12121.5	13442.7	16193.9	16402.6	15501.1
45°	13615.9	13595.9	13840.2	13891.3	13782.5	13382.8	12703.3	14251.0	17672.7	18045.8	17044.3
47.5°	13522.7	13484.9	13822.4	14011.2	14097.8	13569.3	13185.2	15125.8	19182.6	19728.9	18727.4
50°	13051.9	12978.6	13480.5	13877.9	14186.6	13691.4	13671.4	16136.2	20899.1	21496.4	20419.4
52.5°	12205.9	12150.4	12721.1	13411.6	13991.2	13751.4	14217.7	17239.7	22528.9	23301.6	22153.6
55°	11124.6	11051.3	11679.7	12581.2	13504.9	13731.4	14763.9	18474.3	24451.8	25235.6	23945.6
57.5°	9410.4	9263.8	10058.7	11124.6	12712.2	13707.0	15332.3	19702.2	26405.8	27345.1	25857.4
60°	6910.1	6692.5	7667.3	8930.7	11162.3	13469.4	16036.2	21078.9	28750.6	29596.6	27944.6
62.5°	4023.5	3896.9	4534.2	5713.3	8413.4	12070.5	16431.5	22679.9	31055.5	31943.7	29996.3
65°	3124.2	3088.7	3144.2	3235.2	4683.0	9037.3	15212.4	24240.9	33986.5	34608.2	32134.6
67.5°	2857.7	2831.1	2855.5	2684.5	2375.9	5033.8	12034.9	24636.1	37126.3	37503.7	34006.5
70°	2540.2	2509.1	2589.1	2442.5	1869.6	2289.3	7776.1	23201.7	39624.3	40332.6	35429.8
72.5°	2069.5	2034.0	2220.5	2153.9	1574.3	1470.0	3905.8	19793.3	39362.3	40832.2	34410.6
75°	1589.9	1569.9	1791.9	1847.4	1283.4	1156.9	1874.1	14712.8	34639.3	36120.4	29656.6
77.5°	1234.6	1219.0	1332.3	1534.3	1034.7	897.1	1152.4	9332.6	26103.8	26363.6	20437.2
80°	925.9	881.5	985.9	1188.0	806.0	655.0	781.6	5442.4	16500.3	14957.1	8895.2
82.5°	579.5	557.3	643.9	792.7	568.4	450.8	508.5	3006.5	6612.6	3894.7	1716.4
85°	330.9	322.0	350.8	453.0	308.6	259.8	290.9	1327.8	1207.9	830.5	517.4
87.5°	133.2	128.8	159.9	202.1	113.2	95.5	102.1	319.7	266.5	246.5	171.0
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°	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7	8426.7
2.5°	8451.1	8451.1	8420.0	8371.2	8315.7	8280.1	8222.4	8206.9	8146.9	8129.1	8158.0
5°	8553.3	8535.5	8440.0	8302.3	8113.6	7940.4	7749.4	7629.5	7460.8	7400.8	7445.2
7.5°	8682.0	8633.2	8468.9	8166.9	7771.6	7383.1	6978.9	6672.5	6379.4	6275.0	6288.4
10°	8799.7	8730.9	8451.1	7922.6	7238.7	6565.9	5922.0	5471.2	5129.3	4989.4	5020.5
12.5°	8917.4	8790.8	8333.4	7516.3	6481.6	5568.9	4882.8	4532.0	4321.0	4152.3	4207.8
15°	9028.4	8850.8	8151.3	6972.3	5651.1	4725.2	4218.9	3939.1	3770.4	3659.3	3679.3
17.5°	9157.2	8901.9	7878.2	6281.7	4860.6	4141.2	3728.2	3559.4	3526.1	3512.8	3521.7
20°	9337.1	8948.5	7518.5	5509.0	4278.8	3674.9	3461.7	3446.2	3443.9	3437.3	3459.5
22.5°	9530.3	9004.0	7043.3	4807.3	3783.7	3384.0	3346.2	3315.2	3295.2	3293.0	3317.4
25°	9759.0	9021.8	6448.2	4232.2	3361.8	3246.3	3201.9	3155.3	3142.0	3142.0	3155.3
27.5°	9981.0	8961.8	5755.5	3732.6	3124.2	3119.8	3062.0	3046.5	3044.3	3050.9	3068.7
30°	10203.1	8848.6	5067.1	3270.8	2986.5	2986.5	2966.5	2977.7	2986.5	3008.7	3024.3
32.5°	10502.8	8728.7	4492.0	2928.8	2866.6	2844.4	2864.4	2886.6	2895.5	2924.4	2948.8
35°	10942.5	8644.3	4034.6	2742.3	2742.3	2713.4	2724.5	2720.1	2700.1	2686.8	2717.9
37.5°	11524.2	8639.8	3657.1	2655.7	2637.9	2633.5	2635.7	2606.8	2529.1	2435.9	2438.1
40°	12223.7	8759.8	3366.2	2595.7	2582.4	2609.1	2595.7	2518.0	2304.8	2142.8	2138.3
42.5°	13162.9	9101.7	3179.7	2522.5	2562.4	2595.7	2542.4	2273.8	2129.4	2020.6	2016.2
45°	14268.7	9656.8	3084.2	2444.7	2524.7	2564.6	2307.1	2189.4	2073.9	1942.9	1934.0
47.5°	15521.1	10356.3	3062.0	2371.5	2440.3	2464.7	2207.1	2153.9	2022.8	1880.7	1869.6
50°	16884.5	11184.5	3122.0	2284.9	2318.2	2233.8	2173.8	2125.0	1989.5	1849.7	1834.1
52.5°	18294.5	12097.1	3241.9	2167.2	2196.0	2102.8	2160.5	2118.3	1969.6	1780.8	1767.5
55°	19680.0	13016.4	3357.4	2029.5	2071.7	1985.1	2122.8	2091.7	1878.5	1665.4	1654.3
57.5°	21087.8	13931.2	3470.6	1907.4	1951.8	1871.9	2062.8	2020.6	1776.4	1558.8	1554.3
60°	22551.1	14819.4	3523.9	1789.7	1820.8	1767.5	1971.8	1898.5	1660.9	1450.0	1443.3
62.5°	23921.1	15558.8	3437.3	1672.0	1692.0	1669.8	1851.9	1754.2	1545.4	1327.8	1325.6
65°	25295.6	15998.5	3170.8	1556.5	1561.0	1549.9	1683.1	1598.7	1410.0	1221.3	1207.9
67.5°	26541.3	16245.0	2746.7	1432.2	1421.1	1416.7	1525.5	1430.0	1279.0	1114.7	1101.4
70°	26805.5	15618.8	2098.3	1285.7	1285.7	1274.5	1352.3	1254.6	1134.7	1001.4	997.0
72.5°	24482.9	13138.5	1489.9	1119.1	1136.9	1114.7	1179.1	1096.9	988.1	899.3	872.6
75°	19742.2	9634.6	1083.6	948.1	979.2	941.5	1001.4	943.7	850.4	848.2	763.8
77.5°	13564.9	5957.5	786.0	781.6	803.8	755.0	823.8	792.7	708.3	670.6	628.4
80°	5788.8	2375.9	572.9	604.0	604.0	559.6	639.5	648.4	575.1	557.3	557.3
82.5°	1152.4	675.0	401.9	415.2	390.8	377.5	453.0	501.8	692.8	770.5	772.7
85°	346.4	248.7	242.0	226.5	199.8	202.1	266.5	504.0	621.7	355.3	306.4
87.5°	95.5	62.2	64.4	51.1	42.2	55.5	91.0	381.9	208.7	88.8	75.5
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)