

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: P648429

Luminaire Tested: **GALN-SA5B-835-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18875.8 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

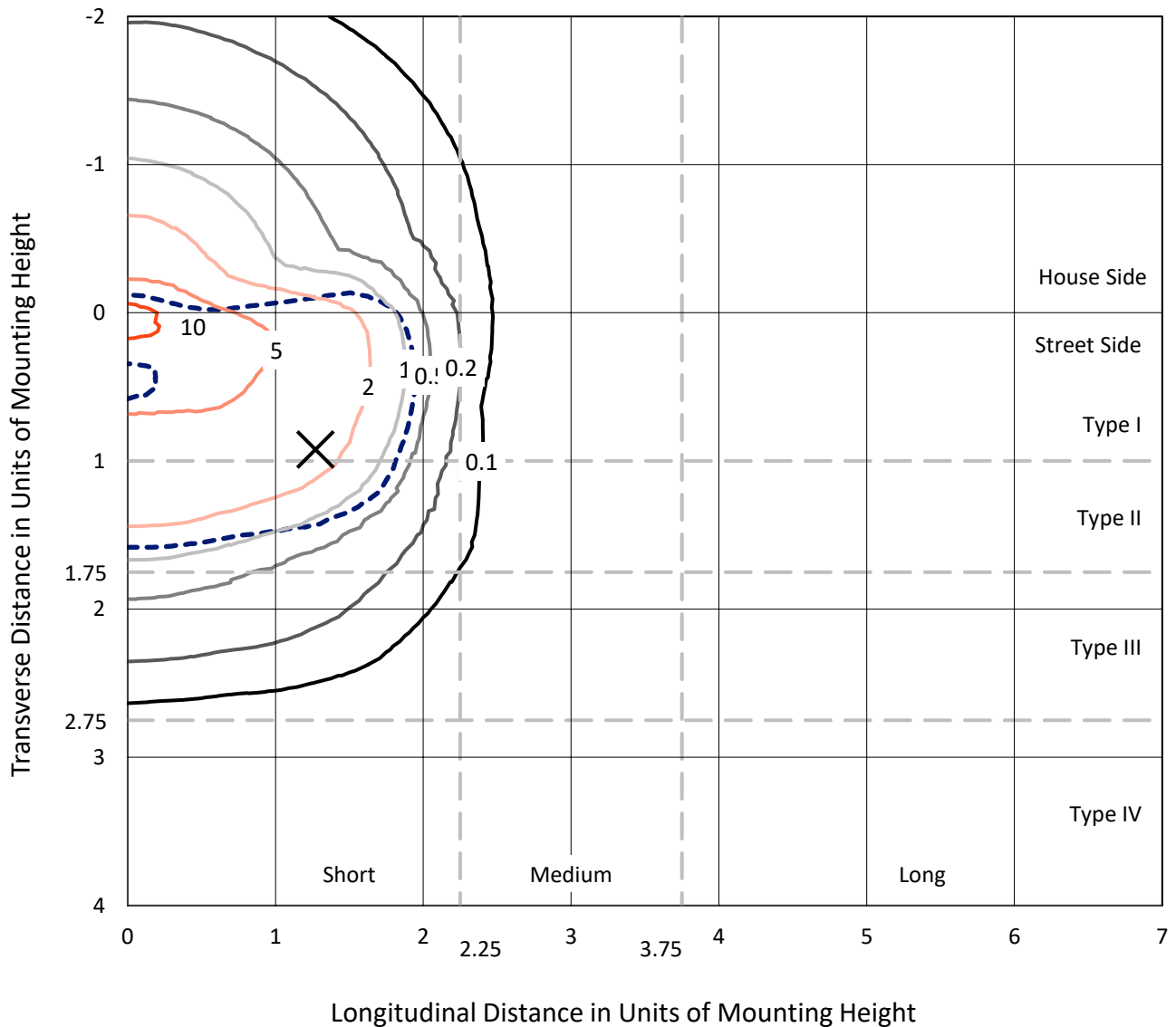
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

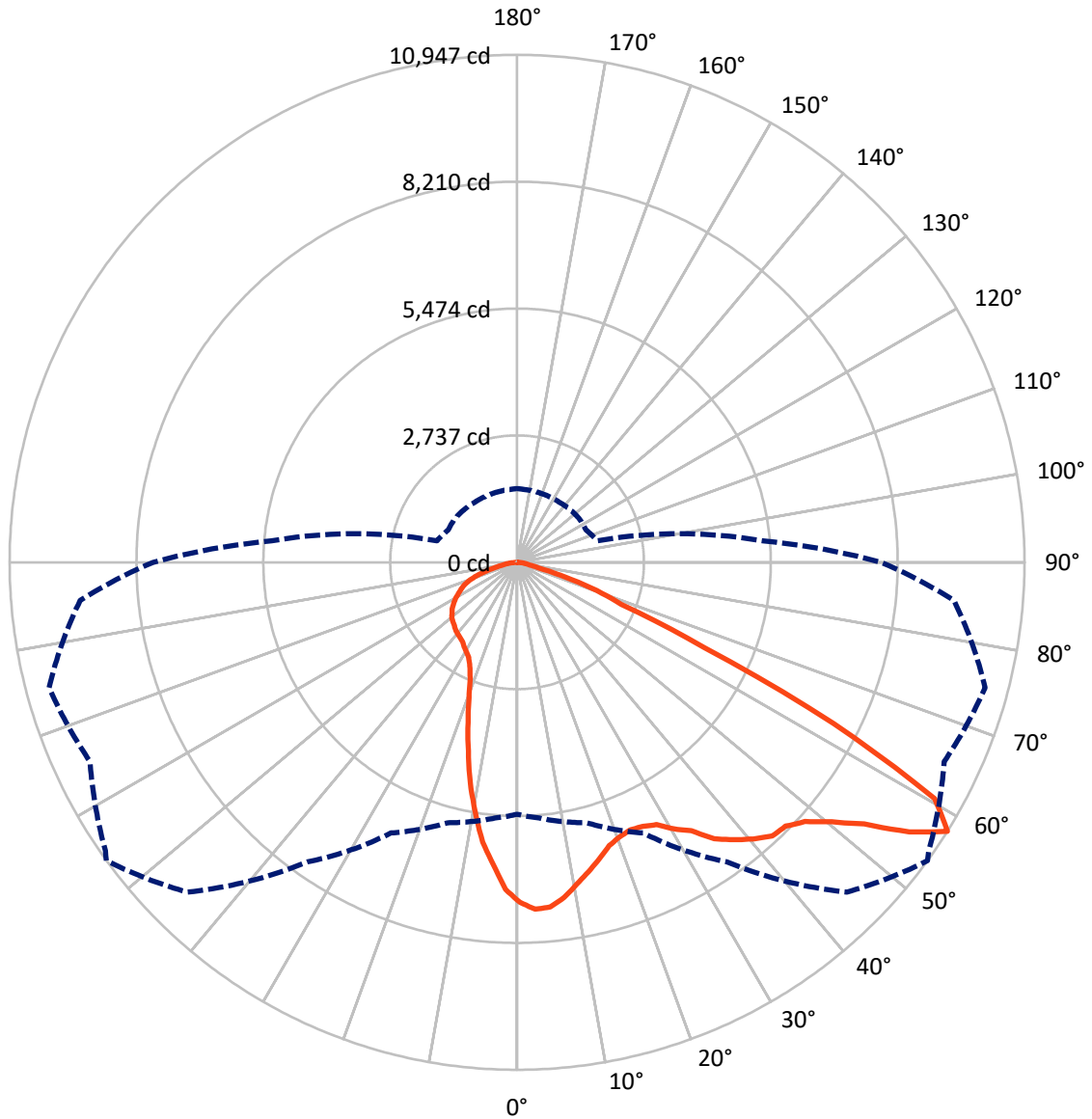
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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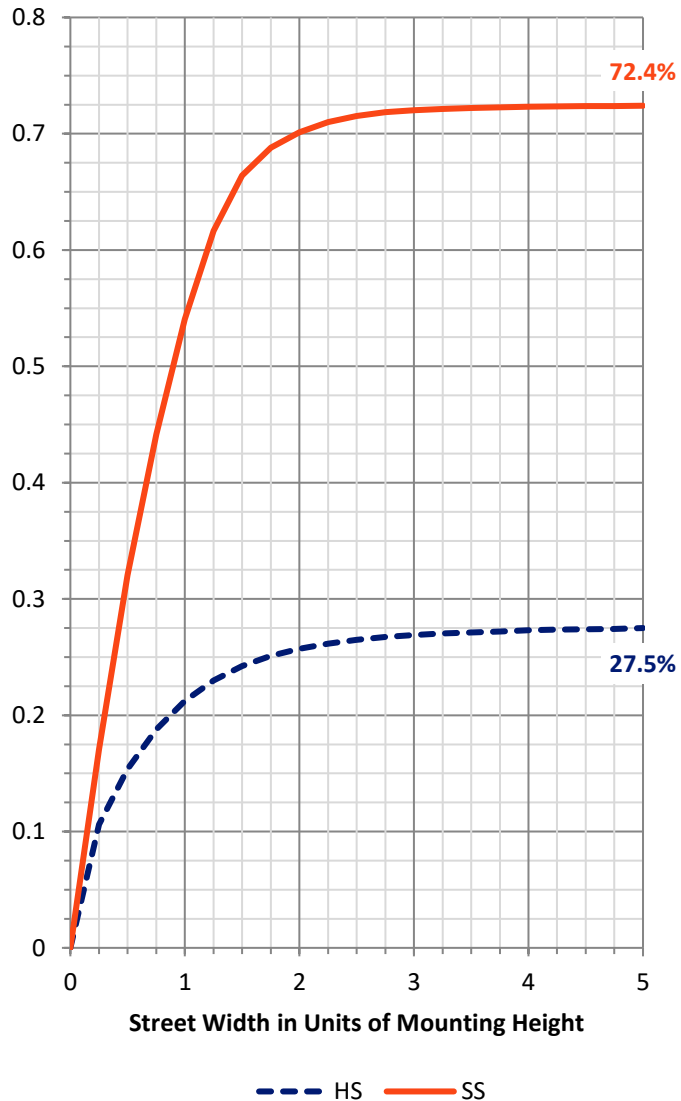
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5222.1	0.0	5222.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13653.7	0.0	13653.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	18875.8	0.0	18875.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.7	3.4
10°-20°	1465.0	7.8
20°-30°	2058.3	10.9
30°-40°	2877.6	15.2
40°-50°	3895.7	20.6
50°-60°	4745.1	25.1
60°-70°	2471.5	13.1
70°-80°	633.3	3.4
80°-90°	96.6	0.5
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°	18875.8	100.0
0°-180°	18875.8	100.0

Coefficient of Utilization



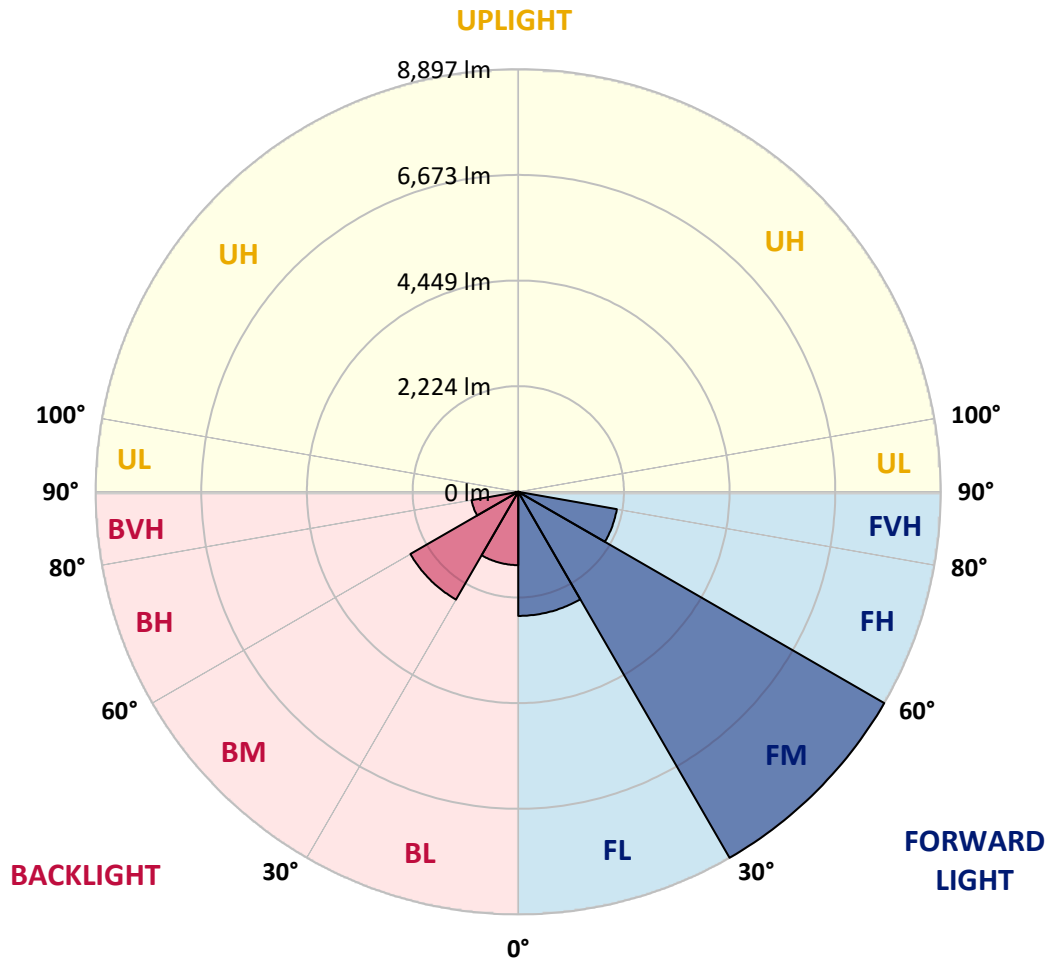
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2612.7	13.8			
FM (30°-60°)	8897.5	47.1			
FH (60°-80°)	2107.1	11.2			G2/5000
FVH (80°-90°)	36.5	0.2			G1/100
BL (0°-30°)	1543.4	8.2	B3/2500		
BM (30°-60°)	2620.9	13.9	B3/5000		
BH (60°-80°)	997.7	5.3	B2/1000		G2/1000
BVH (80°-90°)	60.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8
2.5°	7545.5	7516.3	7521.2	7560.0	7511.5	7492.1	7492.1	7397.5	7404.8	7339.2	7322.2
5°	7370.8	7302.8	7348.9	7407.2	7416.9	7436.3	7467.8	7443.6	7375.6	7305.2	7191.2
7.5°	6914.7	6975.3	6992.3	7033.5	7120.8	7200.9	7300.4	7232.5	7230.1	7159.7	7091.8
10°	6514.3	6477.9	6570.2	6630.8	6776.3	6909.8	7062.7	7055.4	7091.8	7011.7	6895.3
12.5°	6116.4	6087.3	6131.0	6269.2	6473.1	6667.2	6849.1	6781.2	6975.3	6960.7	6710.9
15°	5694.3	5716.1	5779.2	5907.7	6174.7	6407.6	6638.0	6640.5	6812.7	6871.0	6536.2
17.5°	5398.2	5374.0	5454.1	5645.7	5883.5	6162.5	6424.5	6477.9	6742.4	6776.3	6482.8
20°	5177.5	5211.5	5315.8	5412.8	5687.0	6024.2	6320.2	6339.6	6727.8	6820.0	6397.9
22.5°	5124.1	5104.7	5138.7	5296.4	5522.0	5888.4	6264.4	6337.2	6725.4	6805.4	6237.8
25°	5068.3	5131.4	5129.0	5286.7	5451.6	5779.2	6310.5	6390.6	6854.0	6880.7	6259.5
27.5°	5194.5	5187.2	5255.1	5267.2	5471.1	5808.3	6407.6	6468.2	7067.5	7045.7	6276.5
30°	5320.6	5284.2	5325.5	5468.6	5563.3	5975.7	6674.4	6669.6	7344.1	7329.5	6329.9
32.5°	5475.9	5458.9	5485.6	5611.8	5771.9	6198.9	6900.1	7043.2	7625.5	7717.7	6514.3
35°	5505.0	5575.4	5638.5	5808.3	6036.4	6560.4	7324.7	7443.6	7950.7	8239.4	6866.1
37.5°	5689.4	5716.1	5864.1	6165.0	6373.6	7043.2	7594.0	7669.2	8246.6	8574.2	7237.3
40°	5886.0	5917.4	6140.7	6456.1	6742.4	7358.6	7846.3	7870.6	8341.2	8831.3	7479.9
42.5°	6152.8	6181.9	6402.7	6798.2	7181.5	7627.9	8069.5	8096.2	8333.9	9127.4	7865.7
45°	6429.4	6499.8	6759.4	7208.2	7552.7	7943.4	8120.5	8229.6	8401.9	9391.8	8178.7
47.5°	6817.6	6883.1	7096.6	7535.7	7938.5	8219.9	8355.8	8462.6	8564.5	9622.3	8380.1
50°	7230.1	7242.2	7501.8	7899.7	8195.7	8532.9	8795.0	8831.3	8778.0	9889.1	8722.2
52.5°	7533.3	7572.2	7773.5	8161.7	8603.3	9018.1	9377.2	9416.0	9311.7	9988.7	8838.6
55°	7031.1	7009.3	7336.8	7853.6	8877.4	9741.1	10262.8	10291.9	9699.9	10296.8	9219.5
57.5°	5434.6	5539.0	5818.0	6441.5	7887.6	10061.4	10947.0	10842.7	10165.8	10452.0	9462.2
60°	3949.8	3925.6	4112.4	4529.7	5944.1	8671.2	10350.2	10456.9	9784.8	9420.9	7802.6
62.5°	3217.1	3183.1	3197.7	3212.3	3835.8	5754.9	7661.9	7659.5	7535.7	6771.5	5262.4
65°	2571.8	2651.9	2659.1	2768.3	2848.3	3437.9	4439.9	4677.7	4073.6	3340.8	2423.8
67.5°	1938.6	1909.4	2006.4	2394.6	2545.1	2482.0	2423.8	2450.5	1742.0	1256.8	1184.0
70°	1142.7	1130.6	1247.1	1669.2	2096.2	1972.5	1826.9	1829.3	1196.1	878.3	977.7
72.5°	625.9	623.5	647.8	846.7	1191.3	1237.4	1096.7	1130.6	713.3	710.9	764.3
75°	349.4	342.1	334.8	373.6	429.4	453.7	463.4	468.2	490.1	548.3	570.2
77.5°	128.6	123.7	123.7	143.1	182.0	228.1	288.7	293.5	346.9	397.9	419.8
80°	43.7	48.5	65.5	89.7	121.3	162.6	196.5	201.4	245.1	279.0	286.3
82.5°	26.7	29.1	43.7	63.1	87.3	114.0	145.6	148.0	182.0	203.8	213.5
85°	12.1	14.6	24.3	38.8	55.8	75.2	77.7	77.7	75.2	77.7	72.8
87.5°	0.0	0.0	4.9	4.9	4.9	7.3	9.7	7.3	12.1	14.6	14.6
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°	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8	7336.8
2.5°	7271.3	7244.6	7162.1	7089.4	7067.5	6970.4	6827.3	6844.3	6740.0	6788.5	6737.6
5°	7171.8	7082.1	6871.0	6781.2	6545.9	6439.1	6366.3	6184.4	6099.4	6082.4	6009.7
7.5°	6917.1	6861.3	6596.8	6354.2	6104.3	5890.8	5616.6	5429.8	5296.4	5260.0	5153.2
10°	6715.7	6591.9	6225.6	5856.8	5500.2	5129.0	4772.3	4493.3	4357.5	4199.7	4146.4
12.5°	6516.8	6329.9	5835.0	5361.9	4900.9	4432.6	4000.8	3661.2	3365.1	3294.8	3270.5
15°	6393.0	6067.9	5485.6	4915.4	4260.4	3649.0	3217.1	2994.0	2812.0	2736.7	2790.1
17.5°	6230.5	5852.0	5150.8	4391.4	3670.9	3108.0	2746.5	2608.2	2542.6	2549.9	2528.1
20°	6026.7	5648.2	4711.6	3915.9	3144.4	2695.5	2489.2	2438.3	2448.0	2465.0	2457.8
22.5°	5881.1	5400.7	4393.8	3430.6	2717.3	2467.5	2382.5	2346.1	2377.7	2392.2	2380.1
25°	5769.5	5189.6	4008.1	3001.2	2469.9	2338.8	2300.1	2297.6	2346.1	2365.5	2353.4
27.5°	5667.6	4993.1	3624.7	2673.6	2304.9	2239.4	2227.2	2256.4	2287.9	2307.3	2324.3
30°	5606.9	4842.7	3265.7	2399.5	2222.4	2190.8	2169.0	2195.7	2212.7	2232.1	2222.4
32.5°	5665.2	4735.9	2918.7	2244.2	2154.4	2122.9	2152.0	2135.1	2164.1	2181.1	2154.4
35°	5847.1	4641.3	2671.2	2161.7	2076.8	2089.0	2093.8	2086.5	2098.7	2084.1	2115.7
37.5°	6026.7	4607.3	2443.2	2091.4	2040.4	2040.4	2035.6	2021.0	2045.3	2040.4	2055.0
40°	6254.7	4629.2	2249.1	2016.1	2006.4	2001.6	1982.2	1979.7	1970.0	1972.5	1977.3
42.5°	6453.6	4677.7	2137.5	1967.7	1974.9	1984.6	1948.3	1919.1	1931.3	1907.0	1907.0
45°	6664.7	4721.3	2038.0	1933.7	1926.4	1924.0	1894.9	1877.9	1868.2	1870.6	1892.4
47.5°	6997.1	4784.4	1962.8	1887.6	1892.4	1856.0	1848.7	1826.9	1836.6	1851.2	1853.6
50°	7232.5	4917.9	1904.6	1834.2	1851.2	1826.9	1783.3	1773.6	1773.6	1797.8	1793.0
52.5°	7397.5	5104.7	1848.7	1776.0	1783.3	1763.9	1749.3	1727.5	1712.9	1746.9	1763.9
55°	7902.1	5415.2	1834.2	1727.5	1725.0	1705.6	1678.9	1657.1	1649.8	1654.6	1688.6
57.5°	7853.6	5318.2	1788.1	1642.5	1637.6	1611.0	1584.3	1577.0	1574.6	1579.5	1589.2
60°	6376.0	3928.0	1596.5	1545.5	1538.2	1533.3	1506.6	1477.5	1463.0	1477.5	1465.4
62.5°	4219.1	2630.0	1407.2	1429.1	1433.9	1421.8	1378.1	1349.0	1353.8	1370.8	1344.1
65°	2072.0	1545.5	1276.2	1334.4	1339.2	1305.3	1264.1	1230.1	1213.1	1227.7	1215.5
67.5°	1184.0	1181.5	1169.4	1230.1	1227.7	1193.7	1128.1	1099.1	1070.0	1074.8	1067.5
70°	1004.4	1023.9	1048.1	1084.5	1082.1	1043.3	965.6	943.7	902.6	897.7	885.6
72.5°	790.9	824.9	878.3	905.0	883.1	834.6	783.6	747.3	710.9	689.0	696.3
75°	587.2	635.6	664.8	681.8	647.8	621.1	579.9	536.2	492.5	473.1	465.8
77.5°	427.0	441.5	468.2	480.4	458.5	431.8	407.6	363.9	322.7	296.0	288.7
80°	298.4	308.1	327.5	327.5	327.5	315.4	283.8	240.2	213.5	189.3	184.4
82.5°	208.7	218.4	237.8	228.1	225.7	211.1	191.7	157.7	128.6	111.6	106.7
85°	72.8	80.1	97.0	116.4	123.7	121.3	109.2	87.3	68.0	55.8	51.0
87.5°	17.0	17.0	19.4	17.0	17.0	19.4	17.0	17.0	17.0	12.1	9.7
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)