

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: P651949

Luminaire Tested: **GALN-SA6A-840-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651949
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-SA6A-840-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 615mA 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: 19294.2 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

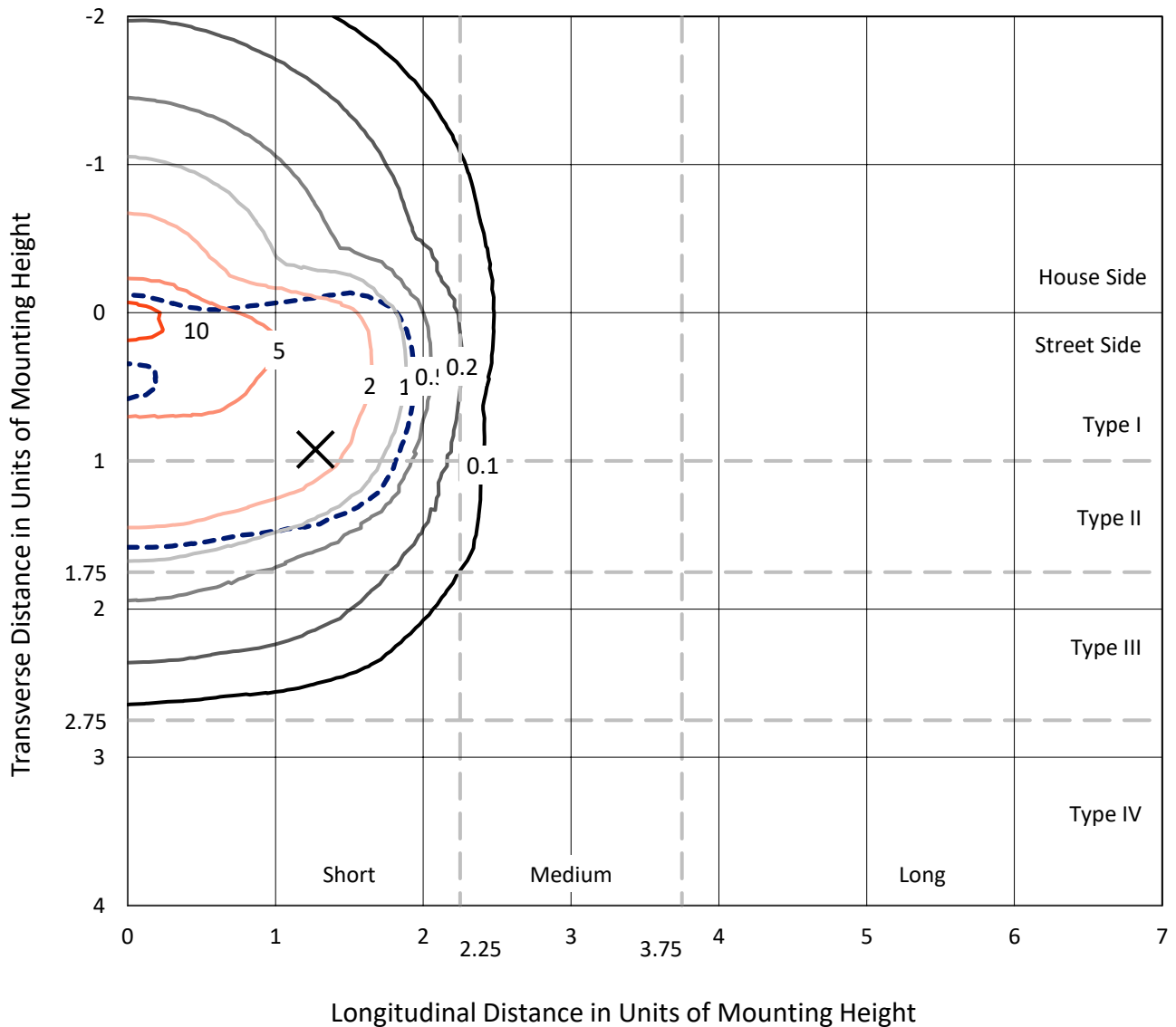
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

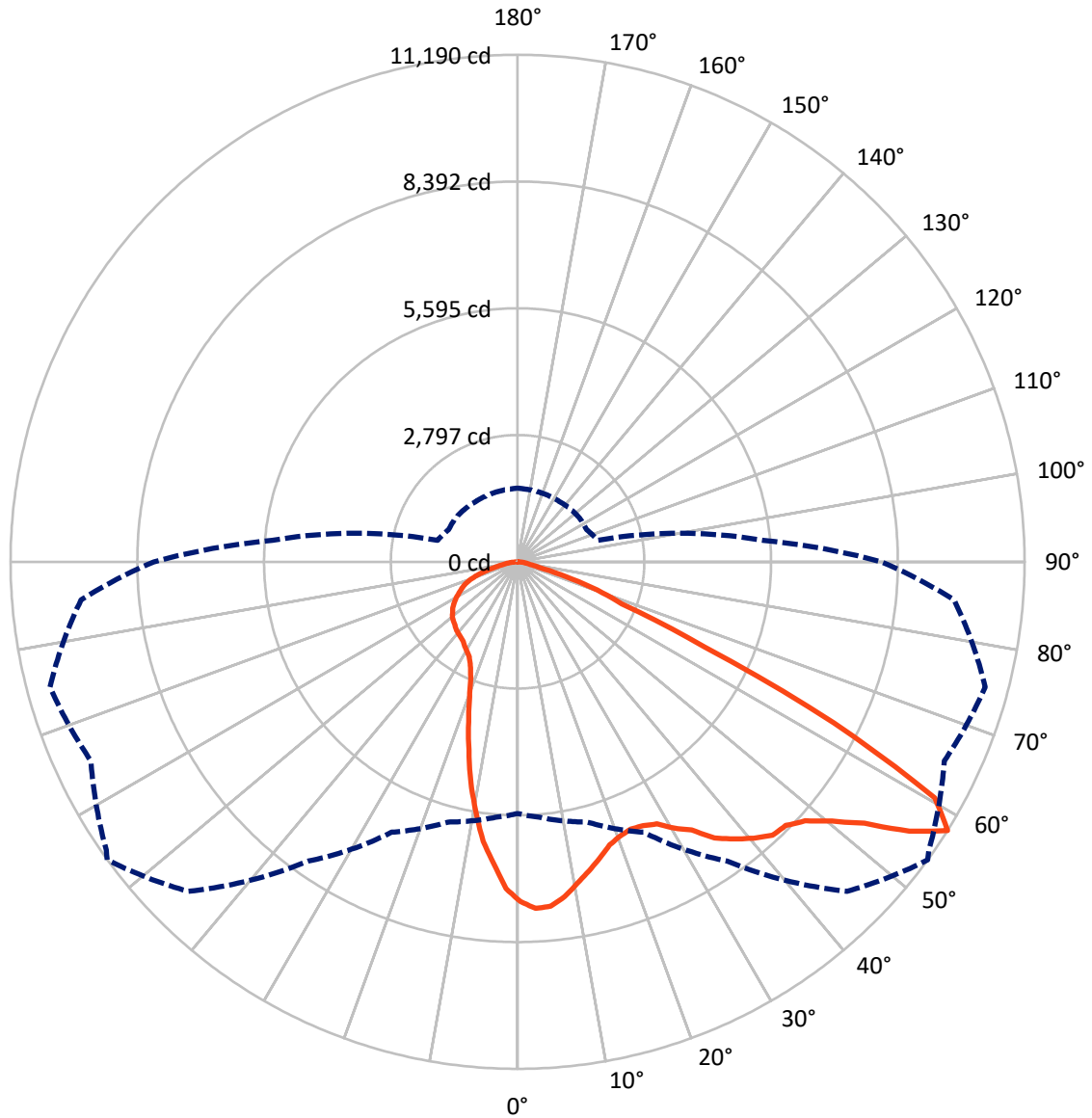
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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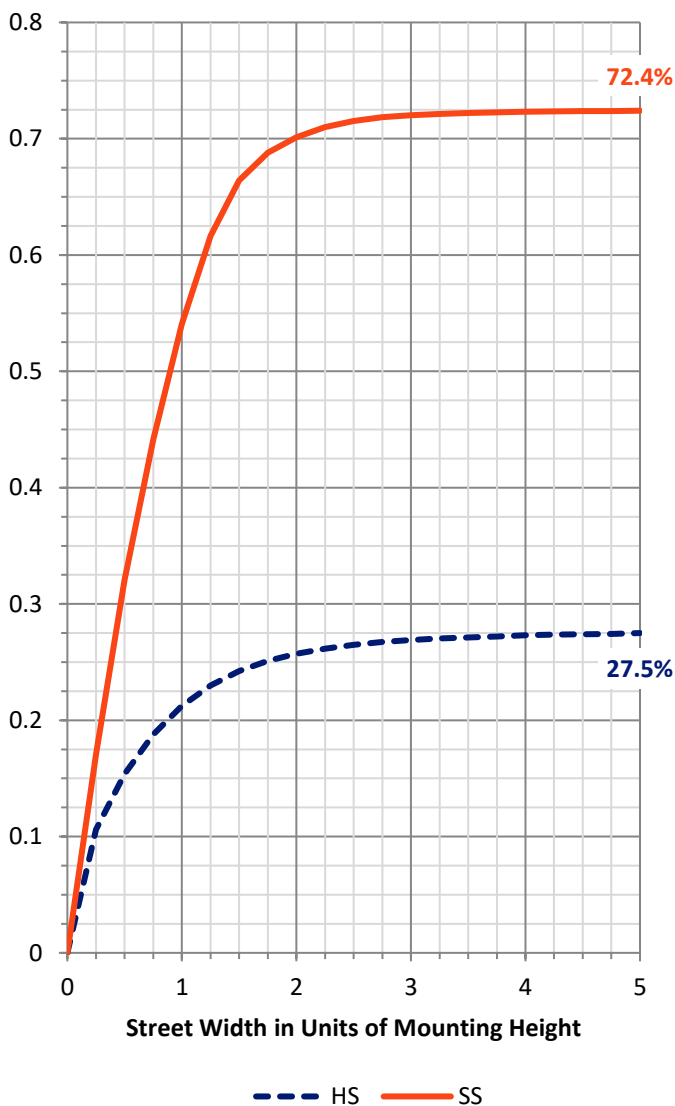
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5337.8	0.0	5337.8
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13956.4	0.0	13956.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	19294.2	0.0	19294.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	646.8	3.4
10°-20°	1497.5	7.8
20°-30°	2104.0	10.9
30°-40°	2941.4	15.2
40°-50°	3982.0	20.6
50°-60°	4850.3	25.1
60°-70°	2526.2	13.1
70°-80°	647.3	3.4
80°-90°	98.7	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°	19294.2	100.0
0°-180°	19294.2	100.0

Coefficient of Utilization

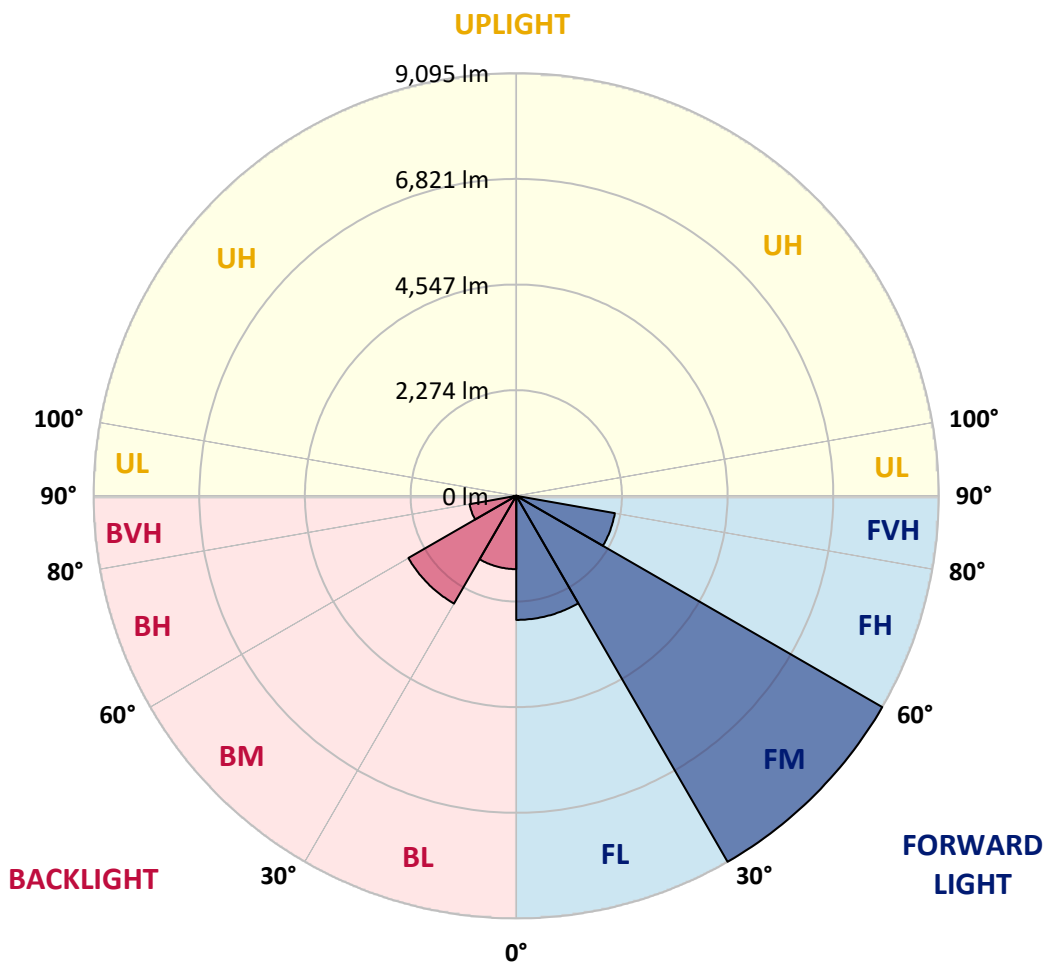


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.6	13.8			
FM (30°-60°)	9094.7	47.1			
FH (60°-80°)	2153.8	11.2			G2/5000
FVH (80°-90°)	37.3	0.2			G1/100
BL (0°-30°)	1577.6	8.2	B3/2500		
BM (30°-60°)	2679.0	13.9	B3/5000		
BH (60°-80°)	1019.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	61.4	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4
2.5°	7712.7	7683.0	7687.9	7727.6	7678.0	7658.1	7658.1	7561.4	7568.9	7501.9	7484.6
5°	7534.2	7464.7	7511.8	7571.4	7581.3	7601.1	7633.3	7608.5	7539.1	7467.2	7350.7
7.5°	7067.9	7129.9	7147.3	7189.5	7278.7	7360.6	7462.3	7392.8	7390.3	7318.4	7249.0
10°	6658.7	6621.5	6715.8	6777.8	6926.6	7063.0	7219.2	7211.7	7249.0	7167.1	7048.1
12.5°	6252.0	6222.2	6266.9	6408.3	6616.6	6815.0	7001.0	6931.5	7129.9	7115.0	6859.6
15°	5820.5	5842.8	5907.3	6038.7	6311.5	6549.6	6785.2	6787.7	6963.7	7023.3	6681.1
17.5°	5518.0	5493.2	5575.0	5770.9	6013.9	6299.2	6566.9	6621.5	6891.8	6926.6	6626.5
20°	5292.2	5327.0	5433.6	5532.9	5813.1	6157.8	6460.3	6480.2	6876.9	6971.2	6539.7
22.5°	5237.7	5217.9	5252.5	5413.8	5644.5	6018.9	6403.3	6477.7	6874.5	6956.3	6376.0
25°	5180.6	5245.1	5242.6	5403.8	5572.5	5907.3	6450.4	6532.2	7006.0	7033.2	6398.3
27.5°	5309.7	5302.2	5371.6	5384.0	5592.3	5937.0	6549.6	6611.6	7224.2	7201.8	6415.7
30°	5438.6	5401.4	5443.5	5589.9	5686.6	6108.2	6822.4	6817.5	7506.9	7492.0	6470.2
32.5°	5597.3	5580.0	5607.2	5736.2	5899.9	6336.3	7053.0	7199.4	7794.6	7888.8	6658.7
35°	5627.0	5699.0	5763.5	5937.0	6170.2	6705.9	7487.0	7608.5	8126.8	8422.0	7018.3
37.5°	5815.5	5842.8	5994.1	6301.6	6514.9	7199.4	7762.3	7839.2	8429.4	8764.2	7397.8
40°	6016.4	6048.6	6276.8	6599.2	6891.8	7521.7	8020.2	8045.0	8526.1	9027.1	7645.8
42.5°	6289.3	6318.9	6544.7	6948.9	7340.8	7797.1	8248.4	8275.7	8518.7	9329.6	8040.0
45°	6571.9	6643.8	6909.2	7368.0	7720.1	8119.4	8300.5	8412.1	8588.1	9600.0	8360.0
47.5°	6968.7	7035.7	7254.0	7702.8	8114.5	8402.2	8541.0	8650.2	8754.3	9835.6	8565.8
50°	7390.3	7402.7	7668.1	8074.8	8377.4	8722.1	8989.9	9027.1	8972.5	10108.4	8915.5
52.5°	7700.3	7740.0	7945.9	8342.6	8794.0	9218.0	9585.1	9624.7	9518.1	10210.1	9034.5
55°	7186.9	7164.6	7499.4	8027.7	9074.2	9957.1	10490.3	10520.1	9915.0	10525.0	9423.9
57.5°	5555.1	5661.8	5947.0	6584.4	8062.4	10284.4	11189.7	11083.0	10391.1	10683.7	9671.9
60°	4037.4	4012.6	4203.6	4630.1	6076.0	8863.5	10579.6	10688.7	10001.8	9629.7	7975.6
62.5°	3288.5	3253.7	3268.6	3283.5	3920.8	5882.5	7831.7	7829.3	7702.8	6921.6	5379.0
65°	2628.8	2710.6	2718.0	2829.6	2911.5	3514.1	4538.4	4781.4	4163.9	3415.0	2477.5
67.5°	1981.5	1951.7	2050.9	2447.7	2601.5	2537.0	2477.5	2504.8	1780.6	1284.6	1210.2
70°	1168.1	1155.7	1274.7	1706.2	2142.7	2016.2	1867.4	1869.9	1222.6	897.8	999.4
72.5°	639.8	637.4	662.1	865.5	1217.7	1264.8	1121.0	1155.7	729.1	726.6	781.2
75°	357.1	349.7	342.2	381.9	438.9	463.7	473.7	478.6	501.0	560.4	582.8
77.5°	131.4	126.5	126.5	146.3	186.0	233.1	295.1	300.1	354.6	406.7	429.0
80°	44.7	49.6	66.9	91.8	124.0	166.2	200.9	205.9	250.4	285.2	292.7
82.5°	27.2	29.8	44.7	64.5	89.3	116.6	148.8	151.3	186.0	208.3	218.2
85°	12.4	14.9	24.8	39.7	57.0	76.9	79.4	79.4	76.9	79.4	74.4
87.5°	0.0	0.0	5.0	5.0	5.0	7.4	9.9	7.4	12.4	14.9	14.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4	7499.4
2.5°	7432.5	7405.2	7320.9	7246.5	7224.2	7125.0	6978.6	6996.0	6889.4	6939.0	6886.9
5°	7330.8	7239.1	7023.3	6931.5	6691.0	6581.8	6507.5	6321.5	6234.7	6217.3	6142.9
7.5°	7070.4	7013.4	6743.1	6495.0	6239.6	6021.4	5741.2	5550.2	5413.8	5376.6	5267.4
10°	6864.6	6738.1	6363.6	5986.7	5622.1	5242.6	4878.1	4593.0	4454.0	4292.8	4238.3
12.5°	6661.2	6470.2	5964.4	5480.7	5009.6	4530.9	4089.4	3742.3	3439.7	3367.8	3343.0
15°	6534.7	6202.4	5607.2	5024.5	4354.9	3729.9	3288.5	3060.3	2874.3	2797.4	2852.0
17.5°	6368.6	5981.7	5265.0	4488.8	3752.2	3176.9	2807.3	2666.0	2599.0	2606.4	2584.1
20°	6160.2	5773.4	4816.1	4002.7	3214.0	2755.3	2544.4	2492.4	2502.3	2519.6	2512.2
22.5°	6011.5	5520.4	4491.2	3506.7	2777.6	2522.2	2435.4	2398.1	2430.4	2445.3	2432.8
25°	5897.3	5304.7	4096.9	3067.7	2524.6	2390.7	2351.0	2348.6	2398.1	2418.0	2405.6
27.5°	5793.2	5103.8	3705.1	2732.9	2356.0	2289.0	2276.6	2306.4	2338.7	2358.4	2375.8
30°	5731.2	4950.0	3338.0	2452.7	2271.6	2239.4	2217.1	2244.4	2261.7	2281.5	2271.6
32.5°	5790.7	4840.9	2983.4	2294.0	2202.2	2169.9	2199.7	2182.4	2212.2	2229.5	2202.2
35°	5976.7	4744.2	2730.5	2209.6	2122.9	2135.3	2140.2	2132.8	2145.1	2130.3	2162.5
37.5°	6160.2	4709.4	2497.3	2137.7	2085.7	2085.7	2080.7	2065.8	2090.6	2085.7	2100.6
40°	6393.4	4731.8	2299.0	2060.9	2050.9	2046.0	2026.1	2023.7	2013.8	2016.2	2021.2
42.5°	6596.7	4781.4	2184.8	2011.3	2018.7	2028.7	1991.4	1961.6	1974.1	1949.3	1949.3
45°	6812.5	4826.0	2083.2	1976.5	1969.1	1966.6	1936.8	1919.5	1909.6	1912.1	1934.4
47.5°	7152.3	4890.5	2006.3	1929.4	1934.4	1897.2	1889.7	1867.4	1877.4	1892.2	1894.7
50°	7392.8	5026.9	1946.7	1874.8	1892.2	1867.4	1822.8	1812.9	1812.9	1837.7	1832.7
52.5°	7561.4	5217.9	1889.7	1815.4	1822.8	1802.9	1788.1	1765.8	1750.9	1785.6	1802.9
55°	8077.3	5535.3	1874.8	1765.8	1763.2	1743.4	1716.1	1693.9	1686.4	1691.3	1726.1
57.5°	8027.7	5436.1	1827.7	1679.0	1674.0	1646.7	1619.4	1611.9	1609.5	1614.5	1624.4
60°	6517.4	4015.1	1631.8	1579.7	1572.3	1567.4	1540.0	1510.3	1495.5	1510.3	1497.9
62.5°	4312.6	2688.3	1438.4	1460.7	1465.7	1453.2	1408.6	1378.9	1383.9	1401.2	1373.9
65°	2117.9	1579.7	1304.5	1364.0	1369.0	1334.2	1292.0	1257.4	1240.0	1254.9	1242.5
67.5°	1210.2	1207.8	1195.3	1257.4	1254.9	1220.1	1153.2	1123.4	1093.6	1098.6	1091.2
70°	1026.7	1046.5	1071.3	1108.5	1106.1	1066.4	987.0	964.7	922.6	917.6	905.2
72.5°	808.5	843.2	897.8	925.0	902.7	853.1	801.1	763.8	726.6	704.3	711.7
75°	600.1	649.8	679.5	696.9	662.1	634.9	592.7	548.1	503.4	483.6	476.2
77.5°	436.5	451.4	478.6	491.1	468.7	441.4	416.6	372.0	329.8	302.6	295.1
80°	305.0	315.0	334.8	334.8	334.8	322.4	290.1	245.5	218.2	193.4	188.5
82.5°	213.3	223.2	243.0	233.1	230.6	215.7	196.0	161.2	131.4	114.0	109.1
85°	74.4	81.8	99.2	119.0	126.5	124.0	111.6	89.3	69.5	57.0	52.1
87.5°	17.3	17.3	19.8	17.3	17.3	19.8	17.3	17.3	17.3	12.4	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

(END OF REPORT)