

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: P529820

Luminaire Tested: **GALN-SA5A-730-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529820
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-SA5A-730-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 17645 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

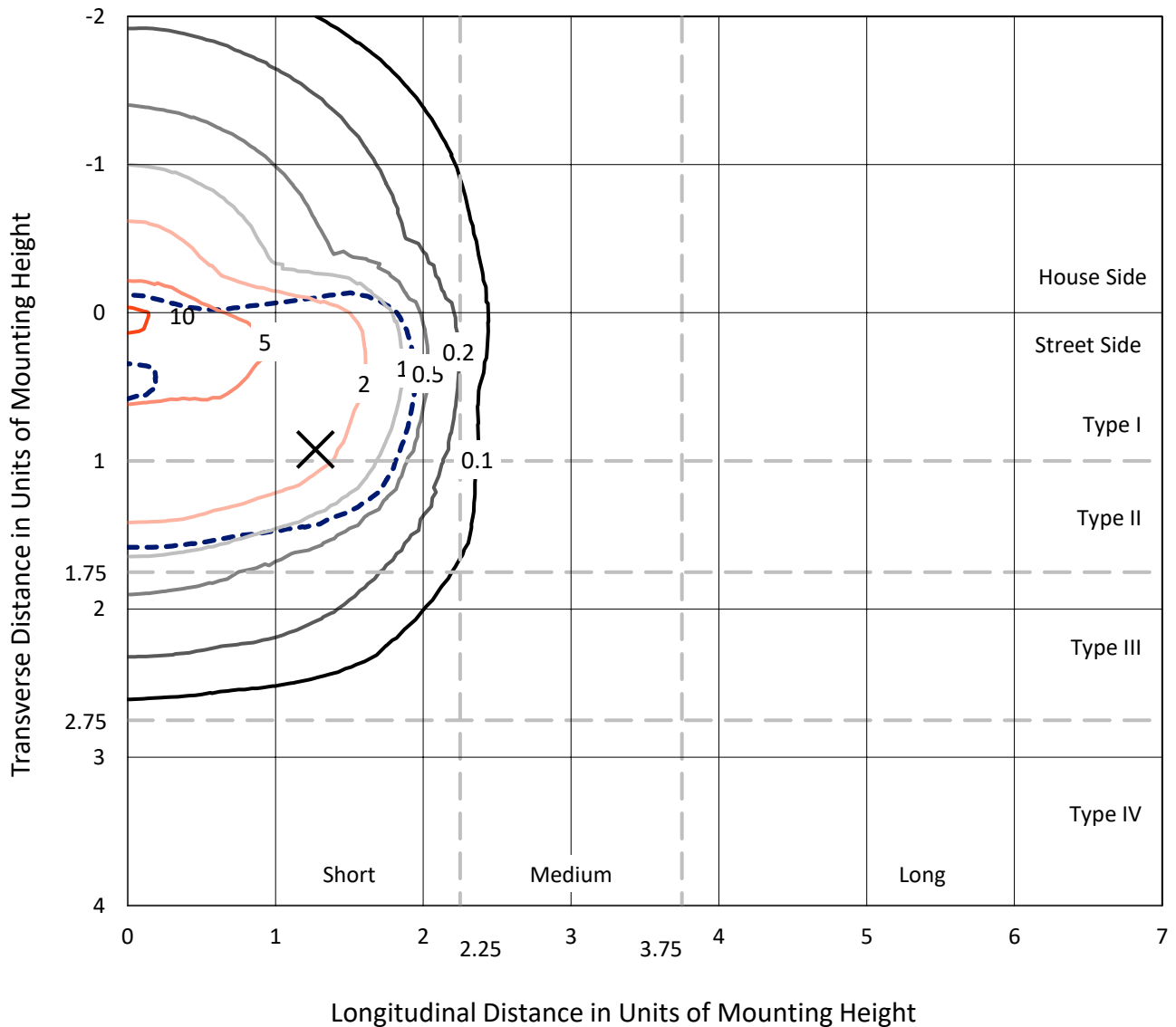
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

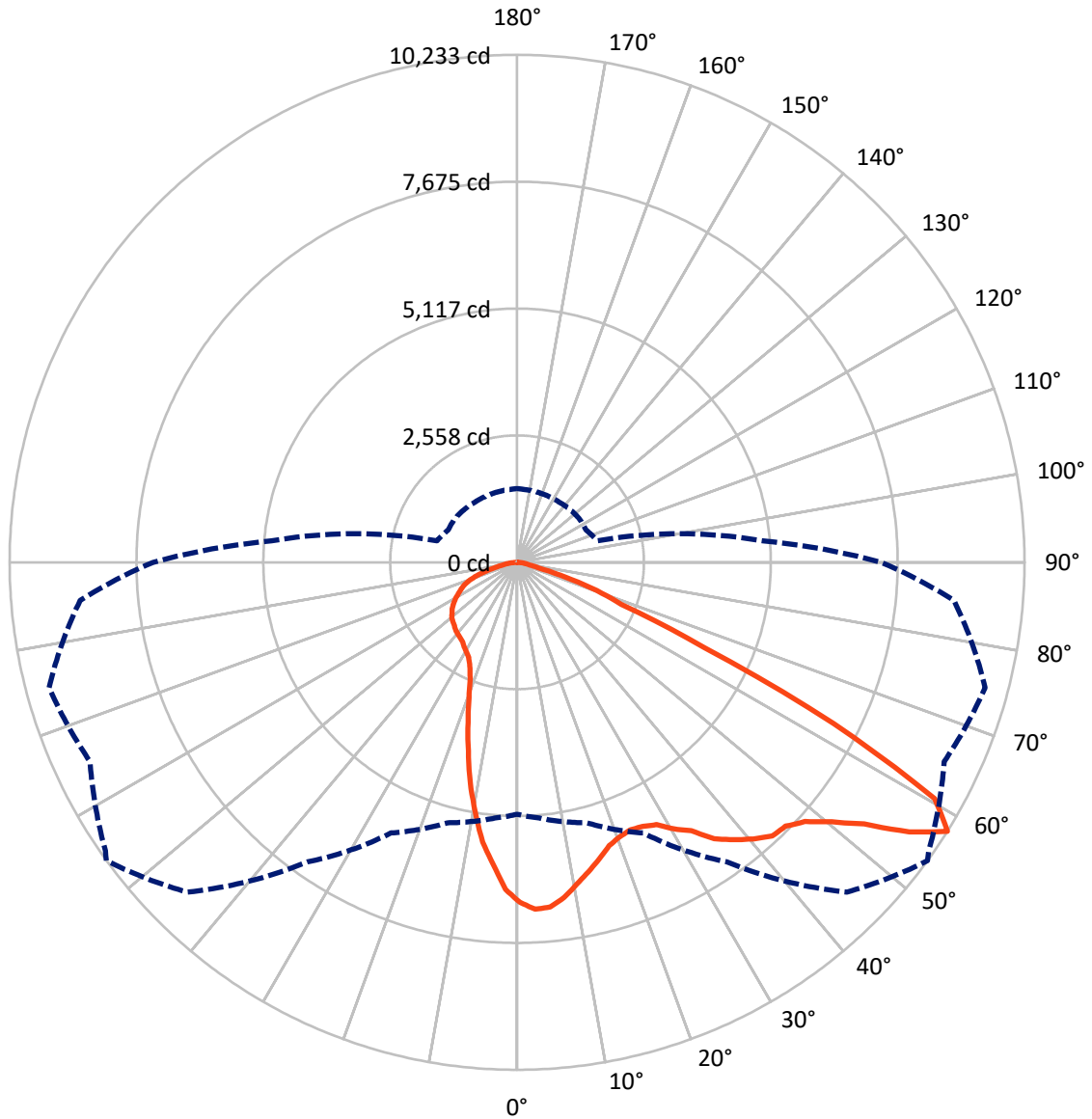
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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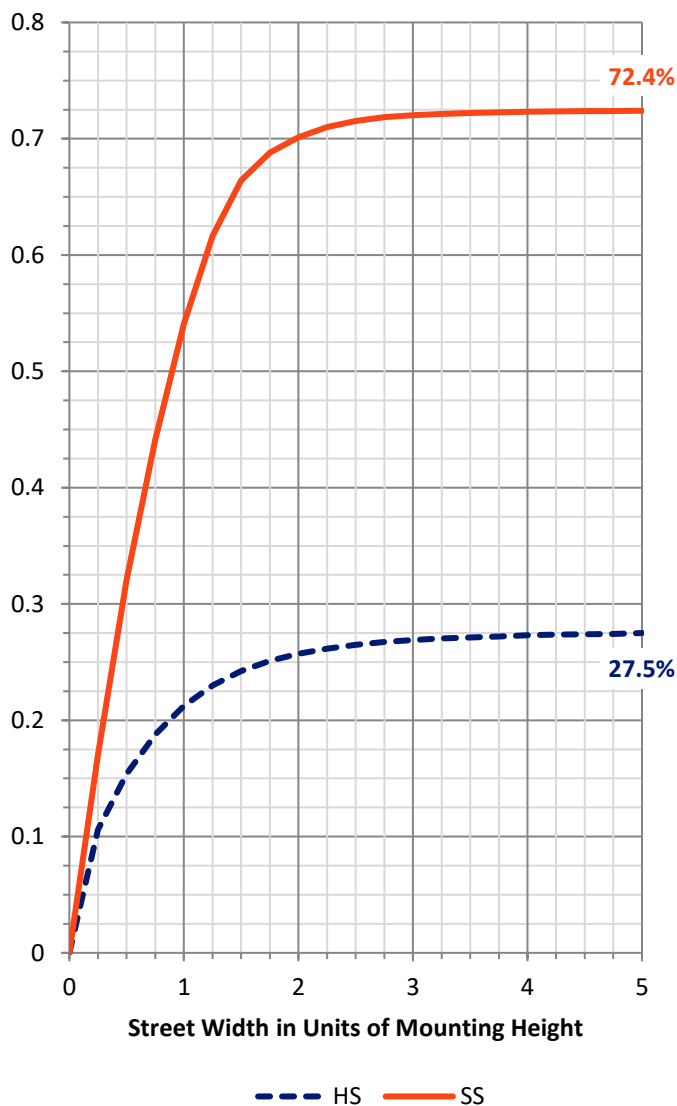
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4881.6	0.0	4881.6
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	12763.4	0.0	12763.4
	% Fixture	72.3	0.0	72.3
Total	Lumens	17645.0	0.0	17645.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	591.5	3.4
10°-20°	1369.5	7.8
20°-30°	1924.1	10.9
30°-40°	2689.9	15.2
40°-50°	3641.7	20.6
50°-60°	4435.7	25.1
60°-70°	2310.3	13.1
70°-80°	592.0	3.4
80°-90°	90.3	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°	17645.0	100.0
0°-180°	17645.0	100.0

Coefficient of Utilization



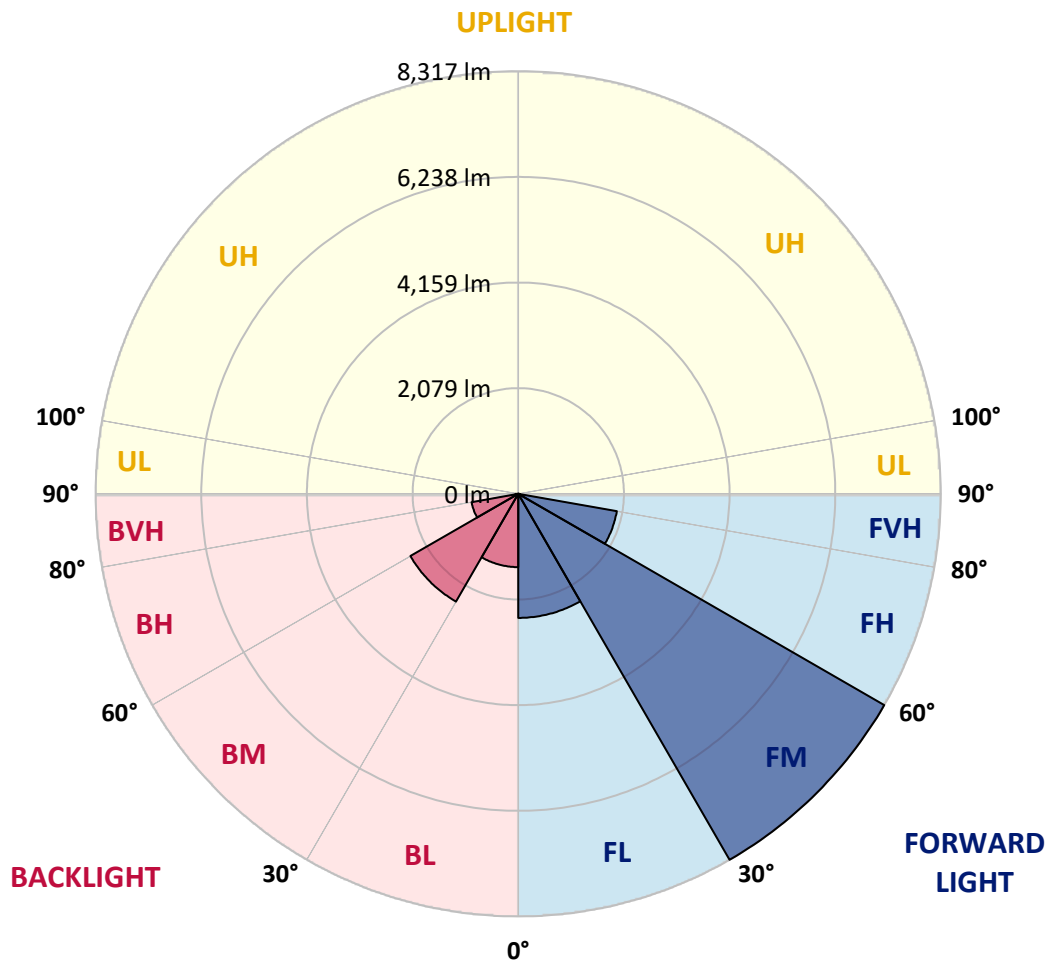
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2442.3	13.8			
FM (30°-60°)	8317.3	47.1			
FH (60°-80°)	1969.7	11.2			G2/5000
FVH (80°-90°)	34.1	0.2			G1/100
BL (0°-30°)	1442.8	8.2	B3/2500		
BM (30°-60°)	2450.0	13.9	B2/2500		
BH (60°-80°)	932.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	56.2	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°	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4
2.5°	7053.5	7026.2	7030.8	7067.1	7021.7	7003.6	7003.6	6915.1	6921.9	6860.7	6844.8
5°	6890.2	6826.7	6869.7	6924.2	6933.3	6951.4	6980.9	6958.2	6894.7	6828.9	6722.3
7.5°	6463.8	6520.5	6536.4	6574.9	6656.6	6731.4	6824.4	6760.9	6758.6	6692.8	6629.3
10°	6089.6	6055.5	6141.7	6198.4	6334.5	6459.2	6602.1	6595.3	6629.3	6554.5	6445.6
12.5°	5717.6	5690.4	5731.2	5860.5	6051.0	6232.4	6402.5	6339.0	6520.5	6506.9	6273.3
15°	5323.0	5343.4	5402.4	5522.6	5772.0	5989.8	6205.2	6207.5	6368.5	6423.0	6110.0
17.5°	5046.3	5023.6	5098.4	5277.6	5499.9	5760.7	6005.6	6055.5	6302.8	6334.5	6060.1
20°	4839.9	4871.6	4969.2	5059.9	5316.2	5631.4	5908.1	5926.3	6289.1	6375.3	5980.7
22.5°	4790.0	4771.9	4803.6	4951.0	5162.0	5504.4	5856.0	5924.0	6286.9	6361.7	5831.0
25°	4737.8	4796.8	4794.5	4942.0	5096.2	5402.4	5899.0	5973.9	6407.1	6432.0	5851.4
27.5°	4855.8	4849.0	4912.5	4923.8	5114.3	5429.6	5989.8	6046.5	6606.7	6586.3	5867.3
30°	4973.7	4939.7	4978.2	5112.1	5200.5	5586.1	6239.2	6234.7	6865.2	6851.6	5917.2
32.5°	5118.9	5103.0	5127.9	5245.9	5395.6	5794.7	6450.2	6584.0	7128.3	7214.5	6089.6
35°	5146.1	5211.8	5270.8	5429.6	5642.8	6132.7	6847.1	6958.2	7432.2	7702.1	6418.4
37.5°	5318.4	5343.4	5481.7	5763.0	5958.0	6584.0	7098.8	7169.1	7708.9	8015.1	6765.4
40°	5502.1	5531.6	5740.3	6035.1	6302.8	6878.8	7334.7	7357.4	7797.4	8255.5	6992.2
42.5°	5751.6	5778.8	5985.2	6354.9	6713.3	7130.6	7543.3	7568.3	7790.6	8532.2	7352.8
45°	6010.2	6076.0	6318.6	6738.2	7060.3	7425.4	7591.0	7693.0	7854.1	8779.4	7645.4
47.5°	6373.1	6434.3	6633.9	7044.4	7420.9	7684.0	7811.0	7910.8	8006.0	8994.9	7833.6
50°	6758.6	6770.0	7012.6	7384.6	7661.3	7976.5	8221.5	8255.5	8205.6	9244.3	8153.4
52.5°	7042.1	7078.4	7266.6	7629.5	8042.3	8430.1	8765.8	8802.1	8704.6	9337.3	8262.3
55°	6572.6	6552.2	6858.4	7341.5	8298.6	9106.0	9593.6	9620.8	9067.4	9625.4	8618.4
57.5°	5080.3	5177.8	5438.6	6021.5	7373.2	9405.4	10233.2	10135.7	9502.9	9770.5	8845.2
60°	3692.3	3669.6	3844.2	4234.3	5556.6	8105.8	9675.3	9775.0	9146.8	8806.6	7293.9
62.5°	3007.4	2975.6	2989.2	3002.8	3585.7	5379.7	7162.3	7160.1	7044.4	6330.0	4919.3
65°	2404.1	2478.9	2485.7	2587.8	2662.6	3213.7	4150.4	4372.7	3808.0	3123.0	2265.7
67.5°	1812.1	1784.9	1875.6	2238.5	2379.1	2320.2	2265.7	2290.7	1628.4	1174.8	1106.8
70°	1068.2	1056.9	1165.7	1560.4	1959.5	1843.9	1707.8	1710.1	1118.1	821.0	914.0
72.5°	585.1	582.9	605.6	791.5	1113.6	1156.7	1025.1	1056.9	666.8	664.5	714.4
75°	326.6	319.8	313.0	349.3	401.4	424.1	433.2	437.7	458.1	512.6	533.0
77.5°	120.2	115.7	115.7	133.8	170.1	213.2	269.9	274.4	324.3	372.0	392.4
80°	40.8	45.4	61.2	83.9	113.4	152.0	183.7	188.2	229.1	260.8	267.6
82.5°	24.9	27.2	40.8	59.0	81.6	106.6	136.1	138.3	170.1	190.5	199.6
85°	11.3	13.6	22.7	36.3	52.2	70.3	72.6	72.6	70.3	72.6	68.0
87.5°	0.0	0.0	4.5	4.5	4.5	6.8	9.1	6.8	11.3	13.6	13.6
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°	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4	6858.4
2.5°	6797.2	6772.2	6695.1	6627.1	6606.7	6515.9	6382.1	6398.0	6300.5	6345.8	6298.2
5°	6704.2	6620.3	6423.0	6339.0	6119.0	6019.3	5951.2	5781.1	5701.7	5685.9	5617.8
7.5°	6466.0	6413.9	6166.7	5939.9	5706.3	5506.7	5250.4	5075.8	4951.0	4917.0	4817.2
10°	6277.8	6162.1	5819.7	5474.9	5141.5	4794.5	4461.1	4200.3	4073.3	3925.9	3876.0
12.5°	6091.8	5917.2	5454.5	5012.3	4581.3	4143.6	3739.9	3422.4	3145.7	3079.9	3057.3
15°	5976.2	5672.2	5127.9	4595.0	3982.6	3411.1	3007.4	2798.7	2628.6	2558.3	2608.2
17.5°	5824.2	5470.4	4814.9	4105.1	3431.5	2905.3	2567.4	2438.1	2376.9	2383.7	2363.2
20°	5633.7	5279.9	4404.4	3660.5	2939.3	2519.7	2327.0	2279.3	2288.4	2304.3	2297.5
22.5°	5497.6	5048.6	4107.3	3206.9	2540.2	2306.5	2227.2	2193.1	2222.6	2236.2	2224.9
25°	5393.3	4851.2	3746.7	2805.5	2308.8	2186.3	2150.1	2147.8	2193.1	2211.3	2200.0
27.5°	5298.0	4667.5	3388.4	2499.3	2154.6	2093.4	2082.0	2109.2	2138.7	2156.9	2172.7
30°	5241.3	4526.9	3052.7	2243.0	2077.5	2048.0	2027.6	2052.5	2068.4	2086.6	2077.5
32.5°	5295.8	4427.1	2728.4	2097.9	2014.0	1984.5	2011.7	1995.8	2023.0	2038.9	2014.0
35°	5465.9	4338.7	2497.1	2020.8	1941.4	1952.7	1957.3	1950.5	1961.8	1948.2	1977.7
37.5°	5633.7	4306.9	2283.9	1955.0	1907.4	1907.4	1902.8	1889.2	1911.9	1907.4	1921.0
40°	5846.9	4327.3	2102.4	1884.7	1875.6	1871.1	1852.9	1850.7	1841.6	1843.9	1848.4
42.5°	6032.9	4372.7	1998.1	1839.3	1846.1	1855.2	1821.2	1794.0	1805.3	1782.6	1782.6
45°	6230.2	4413.5	1905.1	1807.6	1800.8	1798.5	1771.3	1755.4	1746.4	1748.6	1769.0
47.5°	6540.9	4472.5	1834.8	1764.5	1769.0	1735.0	1728.2	1707.8	1716.9	1730.5	1732.7
50°	6760.9	4597.2	1780.4	1714.6	1730.5	1707.8	1667.0	1657.9	1657.9	1680.6	1676.0
52.5°	6915.1	4771.9	1728.2	1660.2	1667.0	1648.8	1635.2	1614.8	1601.2	1633.0	1648.8
55°	7386.9	5062.2	1714.6	1614.8	1612.5	1594.4	1569.5	1549.0	1542.2	1546.8	1578.5
57.5°	7341.5	4971.4	1671.5	1535.4	1530.9	1505.9	1481.0	1474.2	1471.9	1476.5	1485.5
60°	5960.3	3671.9	1492.3	1444.7	1437.9	1433.4	1408.4	1381.2	1367.6	1381.2	1369.9
62.5°	3944.0	2458.5	1315.4	1335.8	1340.4	1329.0	1288.2	1261.0	1265.5	1281.4	1256.5
65°	1936.9	1444.7	1193.0	1247.4	1251.9	1220.2	1181.6	1149.9	1134.0	1147.6	1136.3
67.5°	1106.8	1104.5	1093.2	1149.9	1147.6	1115.9	1054.6	1027.4	1000.2	1004.7	997.9
70°	938.9	957.1	979.8	1013.8	1011.5	975.2	902.7	882.2	843.7	839.2	827.8
72.5°	739.4	771.1	821.0	846.0	825.5	780.2	732.6	698.5	664.5	644.1	650.9
75°	548.9	594.2	621.4	637.3	605.6	580.6	542.1	501.2	460.4	442.3	435.5
77.5°	399.2	412.8	437.7	449.1	428.7	403.7	381.0	340.2	301.6	276.7	269.9
80°	279.0	288.0	306.2	306.2	306.2	294.8	265.4	224.5	199.6	176.9	172.4
82.5°	195.0	204.1	222.3	213.2	210.9	197.3	179.2	147.4	120.2	104.3	99.8
85°	68.0	74.8	90.7	108.9	115.7	113.4	102.1	81.6	63.5	52.2	47.6
87.5°	15.9	15.9	18.1	15.9	15.9	18.1	15.9	15.9	15.9	11.3	9.1
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)