

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: P529825

Luminaire Tested: **GALN-SA5A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12303 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

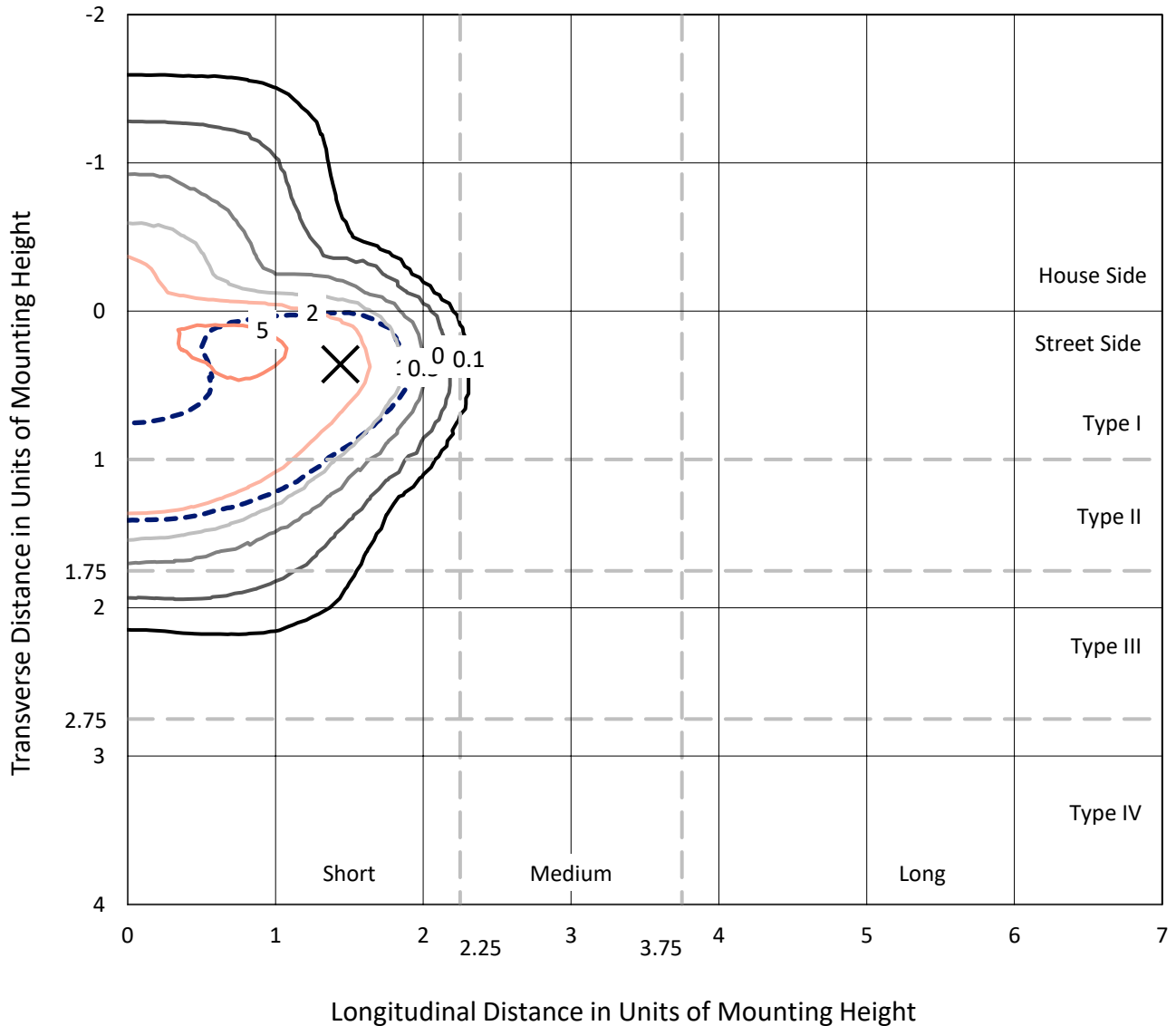
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

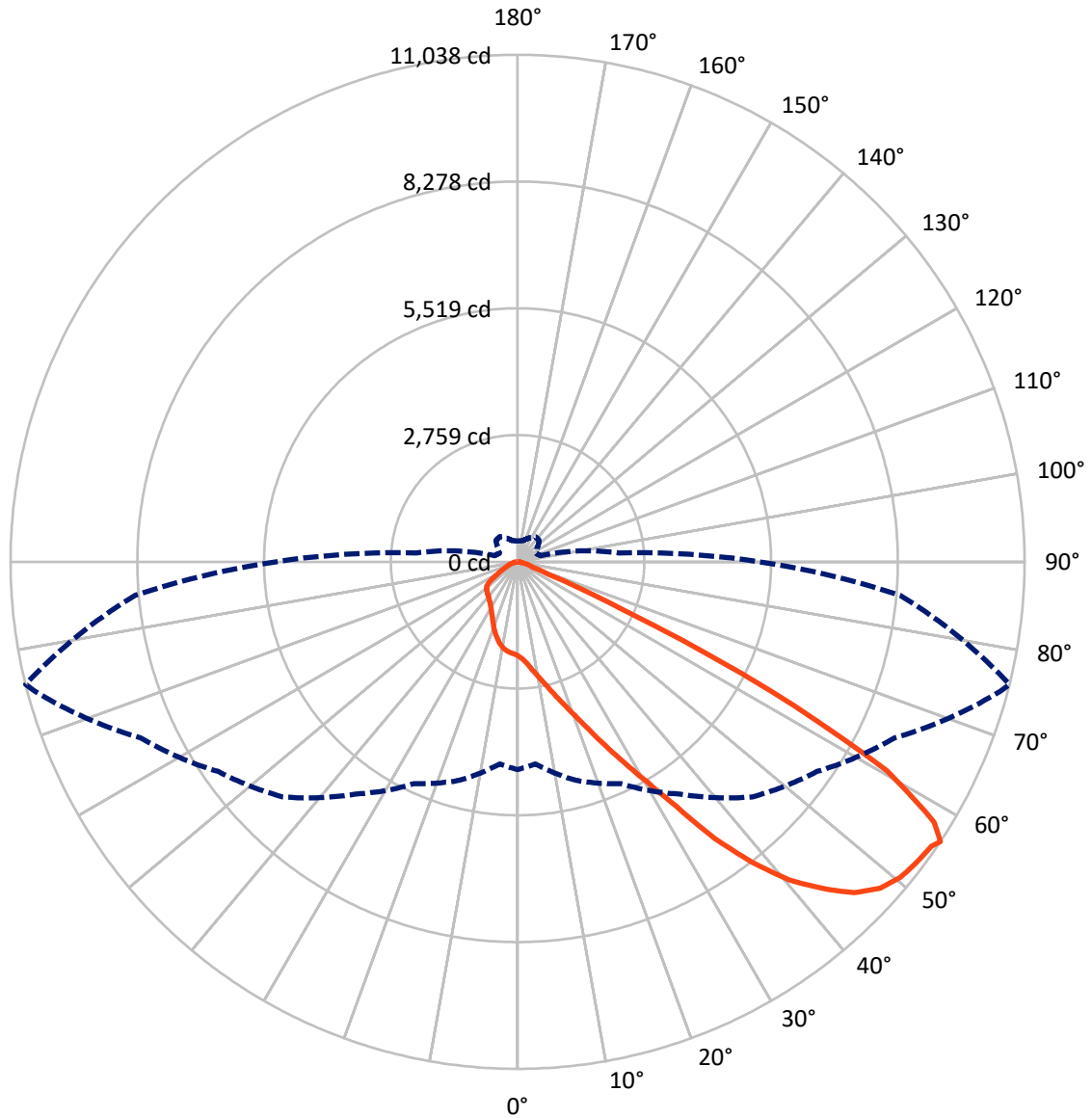
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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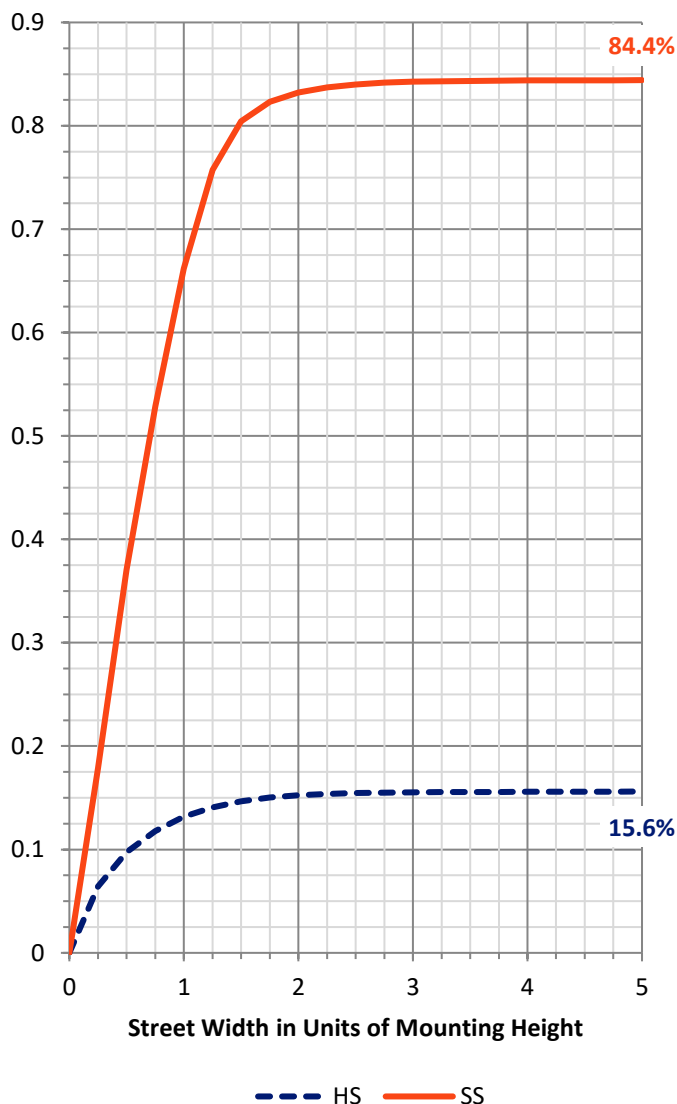
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1932.7	0.0	1932.7
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	10370.3	0.0	10370.3
	% Fixture	84.3	0.0	84.3
Total	Lumens	12303.0	0.0	12303.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.3	1.7
10°-20°	662.7	5.4
20°-30°	1201.7	9.8
30°-40°	2072.4	16.8
40°-50°	3366.7	27.4
50°-60°	3548.7	28.8
60°-70°	1084.3	8.8
70°-80°	139.0	1.1
80°-90°	21.1	0.2
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°	12303.0	100.0
0°-180°	12303.0	100.0

Coefficient of Utilization

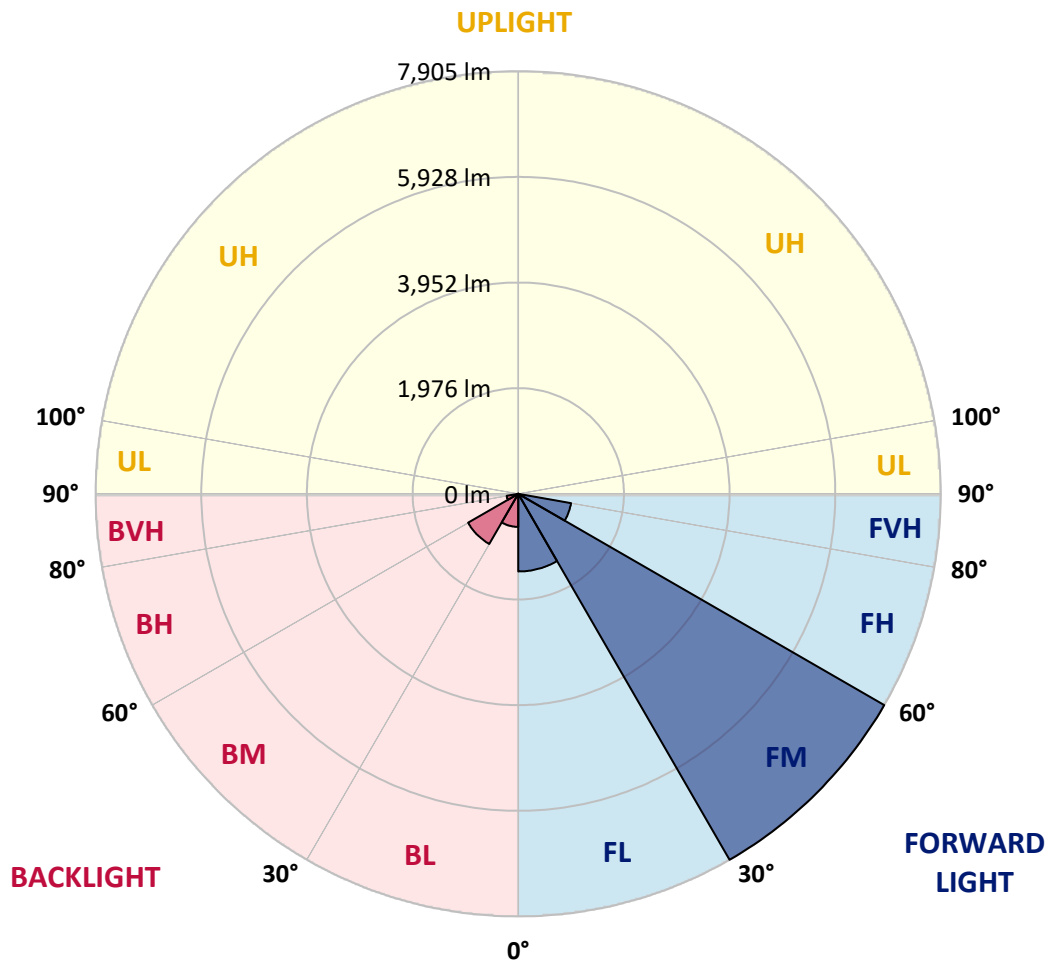


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1452.5	11.8			
FM (30°-60°)	7904.7	64.2			
FH (60°-80°)	1002.8	8.2			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	618.3	5.0	B2/1000		
BM (30°-60°)	1083.2	8.8	B2/2500		
BH (60°-80°)	220.5	1.8	B1/500		G1/500
BVH (80°-90°)	10.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9
2.5°	2358.5	2304.1	2306.4	2301.9	2295.0	2270.1	2195.3	2183.9	2134.0	2120.4	2075.1
5°	2642.0	2594.4	2621.6	2580.8	2542.2	2519.6	2397.1	2340.4	2261.0	2231.5	2168.0
7.5°	2818.9	2796.2	2787.2	2789.4	2753.1	2696.5	2642.0	2517.3	2410.7	2388.0	2254.2
10°	2905.1	2891.5	2905.1	2898.3	2914.2	2921.0	2825.7	2750.9	2594.4	2555.8	2347.2
12.5°	2925.5	2952.7	2964.1	2993.5	3032.1	3097.9	3091.1	2989.0	2780.4	2755.4	2490.1
15°	2975.4	2998.1	2986.7	3034.4	3106.9	3218.1	3277.0	3261.1	3036.6	2991.3	2655.6
17.5°	3020.8	2979.9	3018.5	3113.7	3186.3	3356.4	3499.3	3565.0	3315.6	3263.4	2807.6
20°	3082.0	3070.6	3063.8	3111.5	3240.7	3467.5	3751.0	3871.2	3628.5	3574.1	3025.3
22.5°	3267.9	3270.2	3265.7	3195.4	3288.4	3544.6	3971.0	4268.1	4002.7	3957.4	3272.5
25°	3512.9	3483.4	3460.7	3404.0	3392.7	3614.9	4193.2	4753.4	4451.8	4420.0	3540.1
27.5°	3771.4	3771.4	3703.4	3651.2	3578.6	3789.5	4397.3	5225.1	4993.8	4950.7	3773.7
30°	4052.6	4068.5	4059.4	3948.3	3902.9	3980.0	4606.0	5828.3	5615.2	5560.7	4159.2
32.5°	4467.6	4433.6	4472.2	4379.2	4245.4	4313.4	4934.8	6368.1	6422.5	6345.4	4664.9
35°	5016.4	4996.0	4971.1	4819.1	4660.4	4714.8	5399.7	7032.5	7436.2	7397.7	5175.2
37.5°	5508.6	5497.2	5476.8	5372.5	5188.8	5254.6	5928.1	7724.2	8425.0	8298.0	5896.4
40°	6025.6	6086.9	6021.1	5928.1	5760.3	5905.4	6549.5	8134.7	9257.3	9103.1	6447.4
42.5°	6726.4	6678.8	6708.2	6538.2	6447.4	6606.2	7173.2	8545.2	9903.6	9719.9	7032.5
45°	7472.5	7474.8	7395.4	7341.0	7105.1	7277.5	7556.4	8772.0	10418.4	10275.5	7474.8
47.5°	7951.0	7948.8	8034.9	8121.1	7878.5	7708.4	7817.2	8987.4	10683.8	10618.0	7635.8
50°	7876.2	7898.9	8010.0	8332.0	8459.0	8230.0	8062.1	8923.9	10804.0	10797.2	7774.1
52.5°	6851.1	6926.0	7111.9	7576.8	8216.4	8499.8	8318.4	9041.8	10862.9	10874.3	7980.5
55°	5216.0	5256.8	5610.6	6175.3	6882.9	7853.5	8216.4	9134.8	10908.3	10928.7	8230.0
56°	4524.3	4415.5	4925.7	5327.1	6173.0	7234.4	7957.8	9062.3	10881.1	11037.5	8354.7
57.5°	3415.4	3342.8	3755.5	4256.7	5070.9	6191.2	7155.0	8719.8	10697.4	10695.1	8175.5
60°	2077.3	2004.8	2322.3	2617.1	3072.9	3812.2	4835.0	6944.1	9044.1	9234.6	6619.8
62.5°	1236.0	1281.3	1594.3	1773.4	1920.9	1998.0	2501.4	4127.5	6034.7	6170.8	4107.0
65°	823.2	839.1	1075.0	1369.8	1435.5	1143.0	1018.3	1671.4	2617.1	2533.2	1694.1
67.5°	508.0	544.3	721.2	1029.6	1140.7	834.6	483.0	623.7	721.2	721.2	489.9
70°	308.4	326.6	480.8	700.8	782.4	537.5	351.5	351.5	347.0	340.2	292.6
72.5°	147.4	158.7	244.9	360.6	367.4	283.5	272.1	297.1	290.3	288.0	242.7
75°	63.5	68.0	86.2	113.4	129.3	120.2	165.6	213.2	220.0	213.2	174.6
77.5°	20.4	22.7	31.7	40.8	43.1	52.2	70.3	88.4	102.1	95.2	86.2
80°	2.3	4.5	9.1	20.4	31.7	40.8	52.2	59.0	65.8	65.8	61.2
82.5°	2.3	2.3	9.1	18.1	29.5	38.6	49.9	56.7	65.8	68.0	63.5
85°	0.0	2.3	6.8	15.9	24.9	24.9	22.7	22.7	15.9	15.9	15.9
87.5°	0.0	0.0	2.3	2.3	2.3	4.5	4.5	4.5	4.5	4.5	4.5
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°	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9	2047.9
2.5°	2066.0	2061.5	2000.2	1961.7	1941.3	1900.4	1875.5	1857.4	1843.7	1827.9	1830.1
5°	2093.2	2077.3	1975.3	1905.0	1821.1	1775.7	1737.2	1705.4	1685.0	1680.5	1671.4
7.5°	2170.3	2086.4	1932.2	1805.2	1698.6	1653.2	1619.2	1598.8	1607.9	1587.5	1603.4
10°	2229.3	2104.5	1880.0	1696.3	1589.8	1555.7	1537.6	1553.5	1576.1	1567.1	1555.7
12.5°	2301.9	2122.7	1796.1	1592.0	1492.2	1467.3	1499.0	1528.5	1573.9	1592.0	1569.3
15°	2383.5	2143.1	1689.5	1471.8	1408.3	1428.7	1483.2	1535.3	1580.7	1603.4	1617.0
17.5°	2483.3	2136.3	1585.2	1376.6	1328.9	1387.9	1453.7	1501.3	1569.3	1603.4	1594.3
20°	2576.3	2113.6	1469.6	1281.3	1283.6	1338.0	1392.4	1469.6	1505.8	1551.2	1535.3
22.5°	2664.7	2072.8	1349.4	1215.6	1215.6	1299.5	1326.7	1376.6	1408.3	1431.0	1428.7
25°	2789.4	1995.7	1249.6	1152.1	1179.3	1233.7	1256.4	1272.3	1258.6	1276.8	1279.1
27.5°	2877.9	1916.3	1167.9	1095.4	1145.3	1186.1	1179.3	1170.2	1138.5	1113.5	1129.4
30°	2973.1	1823.3	1097.6	1056.8	1084.0	1120.3	1093.1	1065.9	1016.0	975.2	977.4
32.5°	3109.2	1780.2	1036.4	1011.5	1047.7	1052.3	1022.8	982.0	932.1	893.5	891.3
35°	3363.2	1753.0	984.2	982.0	988.8	991.0	961.6	911.7	891.3	859.5	870.8
37.5°	3617.2	1739.4	948.0	938.9	936.6	938.9	904.9	857.2	895.8	893.5	898.1
40°	3941.5	1800.7	895.8	884.5	886.7	886.7	843.6	830.0	898.1	904.9	907.1
42.5°	4270.3	1877.8	861.8	825.5	834.6	834.6	811.9	796.0	843.6	798.3	791.5
45°	4556.1	1991.2	825.5	766.5	789.2	800.5	793.7	766.5	737.0	659.9	659.9
47.5°	4649.1	2090.9	782.4	709.8	728.0	777.9	757.5	700.8	648.6	585.1	580.6
50°	4812.3	2199.8	748.4	644.1	682.6	743.8	723.4	666.7	607.8	562.4	564.7
52.5°	4980.2	2324.5	684.9	567.0	614.6	716.6	716.6	653.1	562.4	530.7	526.1
55°	5231.9	2320.0	571.5	464.9	548.8	675.8	687.2	585.1	503.5	478.5	478.5
56°	5268.2	2215.7	514.8	435.4	519.3	664.5	666.7	567.0	480.8	453.6	453.6
57.5°	4996.0	2000.2	451.3	399.1	483.0	644.1	646.3	551.1	462.6	424.1	419.5
60°	3844.0	1353.9	376.5	356.0	437.7	580.6	591.9	501.2	405.9	376.5	374.2
62.5°	2170.3	750.7	331.1	322.0	376.5	494.4	528.4	437.7	344.7	328.8	333.4
65°	991.0	412.7	278.9	260.8	303.9	381.0	426.4	360.6	283.5	265.3	265.3
67.5°	362.9	281.2	238.1	206.4	213.2	247.2	276.7	233.6	188.2	161.0	167.8
70°	258.5	235.9	208.6	179.2	165.6	161.0	158.7	131.5	93.0	72.6	77.1
72.5°	208.6	195.0	174.6	151.9	129.3	108.9	93.0	68.0	43.1	29.5	27.2
75°	149.7	142.9	127.0	108.9	90.7	77.1	63.5	43.1	22.7	11.3	11.3
77.5°	77.1	77.1	74.8	68.0	56.7	45.4	36.3	24.9	13.6	4.5	4.5
80°	59.0	63.5	65.8	59.0	52.2	40.8	29.5	18.1	9.1	2.3	2.3
82.5°	56.7	65.8	70.3	61.2	52.2	38.6	29.5	18.1	9.1	2.3	2.3
85°	13.6	13.6	20.4	22.7	29.5	31.7	24.9	15.9	6.8	2.3	2.3
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	2.3	2.3	2.3	2.3	0.0
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)