

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: P529580

Luminaire Tested: **GALN-SA4D-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-730-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25149 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

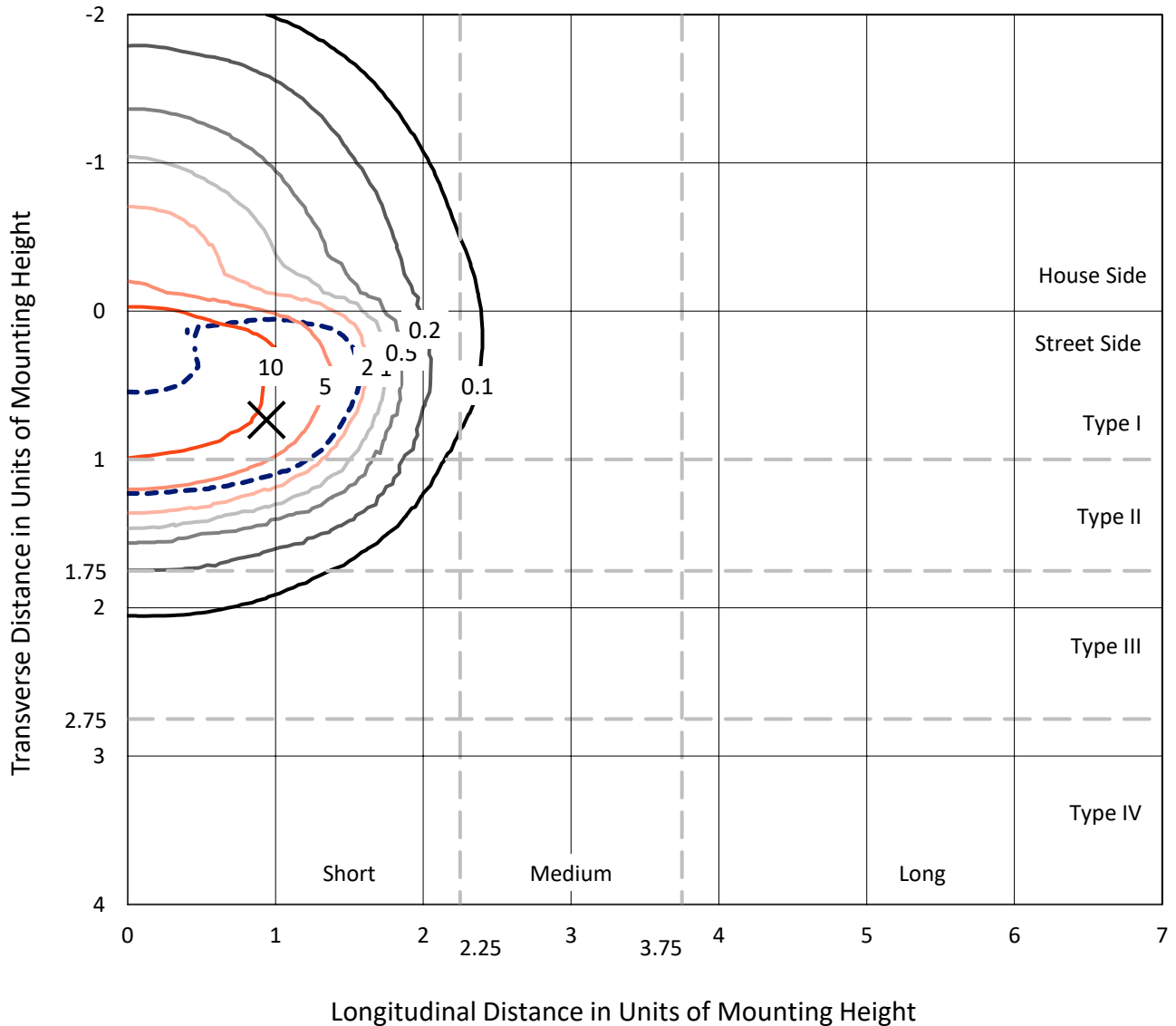
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529580
 CATALOG NUMBER: GALN-SA4D-730-U-AFL-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

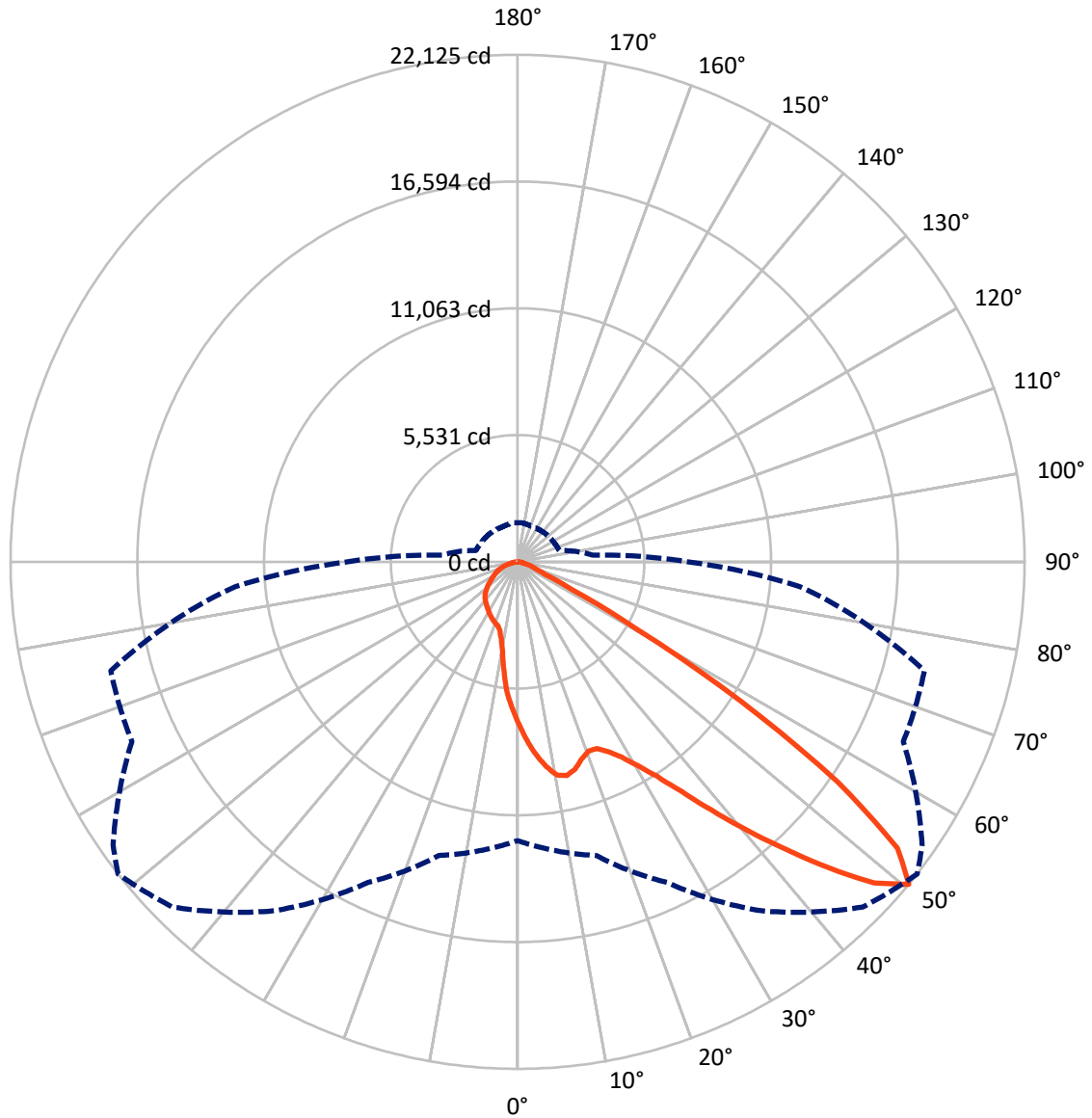
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

REPORT NUMBER: P529580
CATALOG NUMBER: GALN-SA4D-730-U-AFL-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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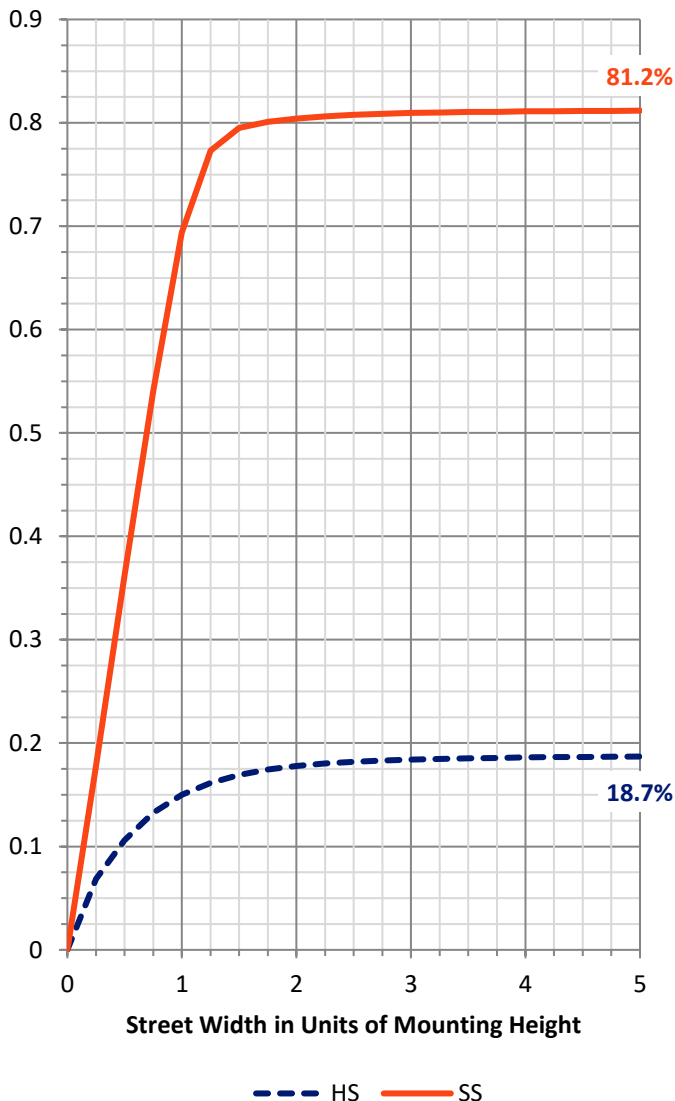
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4727.4	0.0	4727.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	20421.6	0.0	20421.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	25149.0	0.0	25149.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.4	2.6
10°-20°	1751.3	7.0
20°-30°	2950.0	11.7
30°-40°	4950.3	19.7
40°-50°	7572.7	30.1
50°-60°	5521.1	22.0
60°-70°	1228.7	4.9
70°-80°	443.2	1.8
80°-90°	78.5	0.3
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°	25149.0	100.0
0°-180°	25149.0	100.0



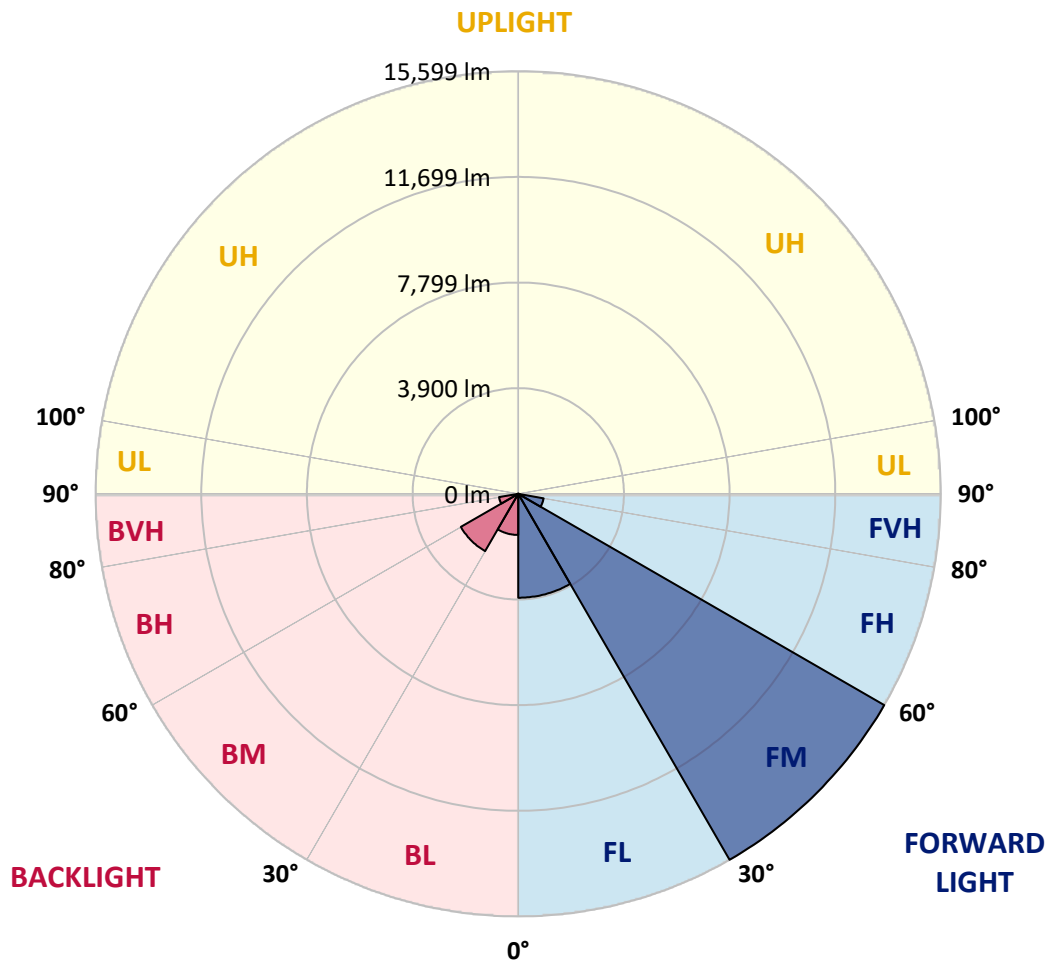
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 CATALOG NUMBER: GALN-SA4D-730-U-AFL-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3836.1	15.3			
FM (30°-60°)	15598.7	62.0			
FH (60°-80°)	951.7	3.8			G1/1800
FVH (80°-90°)	35.2	0.1			G1/100
BL (0°-30°)	1518.5	6.0	B3/2500		
BM (30°-60°)	2445.4	9.7	B2/2500		
BH (60°-80°)	720.2	2.9	B2/1000		G2/1000
BVH (80°-90°)	43.3	0.2			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°	52°	55°	65°	75°	85°
0°	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1
2.5°	8346.9	8186.2	8204.4	8089.3	7965.0	7928.6	7801.3	7680.1	7589.2	7395.2	7216.4
5°	9122.8	9074.3	9001.5	8910.6	8816.7	8586.3	8456.0	8304.4	7971.1	7671.0	7374.0
7.5°	9234.9	9225.8	9265.2	9265.2	9298.6	9210.7	9025.8	8919.7	8565.1	8077.1	7525.5
10°	8446.9	8474.2	8665.1	8913.6	9259.2	9498.6	9468.3	9441.0	9053.1	8386.3	7704.3
12.5°	7819.5	7758.9	7871.0	8083.2	8601.5	9180.4	9571.3	9574.4	9474.3	8880.3	7834.7
15°	7464.9	7507.3	7537.6	7637.7	8028.6	8698.5	9386.4	9589.5	10029.0	9228.8	8040.8
17.5°	7692.2	7549.8	7543.7	7568.0	7768.0	8271.1	9044.0	9392.5	10332.1	9677.4	8295.4
20°	7989.2	7986.2	7901.3	7871.0	7868.0	8316.6	8819.7	9292.5	10492.7	10259.3	8553.0
22.5°	8510.5	8510.5	8371.1	8304.4	8162.0	8528.7	8850.0	9171.3	10759.4	10659.4	8677.2
25°	9383.4	9241.0	9001.5	8837.9	8756.0	8886.4	9171.3	9459.2	10992.8	11083.7	8934.9
27.5°	10189.6	9965.3	9847.1	9565.3	9456.2	9380.4	9641.0	9932.0	11265.6	11744.4	9074.3
30°	11104.9	11065.5	10853.4	10489.7	10219.9	10080.5	10319.9	10607.9	11765.6	12420.3	9395.5
32.5°	12741.6	12383.9	12096.0	11650.5	11211.0	10914.0	11150.4	11341.3	12596.1	13126.5	9747.1
35°	14508.5	14393.4	13896.3	13093.1	12420.3	12153.6	12293.0	12435.5	13562.9	14205.4	10338.1
37.5°	16245.2	16087.6	15678.4	15002.6	14184.2	13641.7	13741.7	13908.4	14647.9	15660.2	11059.5
40°	17493.9	17299.9	17093.8	16993.8	16181.5	15439.0	15381.4	15423.8	16114.9	17024.1	11859.6
42.5°	17584.8	17824.2	17887.9	18291.0	18100.1	17490.9	17136.3	17145.3	17515.1	18372.8	12668.8
45°	17393.9	17172.6	17642.4	18742.6	19373.0	19657.9	19060.8	18985.1	18381.9	19154.8	13071.9
47.5°	15390.5	15451.1	16245.2	17984.9	19806.4	21079.3	20939.9	20688.4	18845.6	19127.5	13008.3
50°	12165.7	12532.4	13268.9	15436.0	18594.1	21303.6	22125.0	21543.1	18569.8	18375.9	12359.7
52.5°	8101.4	8252.9	8737.9	11535.3	14951.0	19042.6	20761.1	20894.5	18315.2	17390.8	11538.3
55°	3606.7	3594.6	4276.5	6025.3	9380.4	14490.3	16963.5	17775.8	17336.3	16387.6	10738.2
57.5°	1527.5	1579.1	1857.9	2603.5	4612.9	8743.9	11492.9	12205.1	13332.6	13456.8	8237.8
60°	1033.5	1039.6	1115.3	1303.3	1930.6	4106.8	6028.3	6883.0	7689.2	7634.6	4370.4
62.5°	812.3	833.5	891.1	966.8	1145.6	1864.0	2697.4	3173.3	3224.8	2712.6	1657.9
65°	694.1	697.1	754.7	818.3	897.1	1085.0	1300.2	1324.5	1339.6	1291.1	1218.4
67.5°	572.8	578.9	624.3	697.1	769.8	830.4	891.1	921.4	991.1	1127.5	1109.3
70°	454.6	463.7	503.1	563.7	630.4	666.8	742.6	769.8	833.5	939.6	982.0
72.5°	345.5	348.5	381.9	424.3	484.9	521.3	584.9	615.3	657.7	748.6	788.0
75°	248.5	257.6	281.9	303.1	312.2	336.4	397.0	430.4	491.0	530.4	533.4
77.5°	130.3	136.4	142.4	142.4	172.8	218.2	257.6	275.8	318.2	348.5	333.4
80°	51.5	54.6	69.7	94.0	121.2	157.6	184.9	194.0	230.3	248.5	257.6
82.5°	30.3	33.3	45.5	66.7	87.9	112.1	133.4	142.4	166.7	187.9	194.0
85°	15.2	18.2	27.3	42.4	57.6	69.7	66.7	63.6	63.6	60.6	63.6
87.5°	6.1	6.1	9.1	9.1	9.1	12.1	15.2	15.2	15.2	18.2	18.2
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°	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1	7089.1
2.5°	7098.2	6976.9	6864.8	6658.7	6434.4	6370.8	6110.1	6016.2	5949.5	5870.7	5846.5
5°	7134.5	6973.9	6613.2	6198.0	5867.7	5443.4	5164.5	4864.5	4646.2	4591.7	4576.5
7.5°	7210.3	6934.5	6313.2	5685.8	5009.9	4434.1	3994.6	3758.2	3549.1	3537.0	3515.8
10°	7295.2	6816.3	5985.9	5000.9	4137.1	3603.6	3340.0	3236.9	3185.4	3173.3	3167.2
12.5°	7364.9	6792.1	5619.1	4334.1	3518.8	3197.5	3118.7	3109.6	3130.8	3136.9	3149.0
15°	7395.2	6695.1	5176.6	3737.0	3133.9	3015.7	3049.0	3085.4	3100.5	3139.9	3109.6
17.5°	7452.8	6570.8	4631.1	3264.2	2918.7	2939.9	2997.5	3039.9	3064.2	3091.4	3052.0
20°	7483.1	6458.7	4118.9	2982.3	2842.9	2882.3	2961.1	2994.4	3024.8	3036.9	2991.4
22.5°	7455.8	6228.3	3667.3	2755.0	2770.2	2821.7	2891.4	2927.8	2909.6	2861.1	2833.8
25°	7383.1	5904.0	3197.5	2609.5	2667.1	2758.0	2812.6	2785.3	2752.0	2724.7	2715.6
27.5°	7380.0	5507.0	2858.1	2476.2	2579.2	2703.5	2685.3	2661.1	2676.2	2655.0	2630.8
30°	7395.2	5122.1	2579.2	2400.4	2515.6	2576.2	2597.4	2573.2	2591.4	2551.9	2564.1
32.5°	7316.4	4746.3	2397.4	2312.5	2439.8	2436.8	2506.5	2524.7	2482.2	2400.4	2412.5
35°	7349.7	4443.2	2242.8	2273.1	2354.9	2354.9	2409.5	2388.3	2276.1	2227.7	2239.8
37.5°	7580.1	4146.2	2167.0	2218.6	2273.1	2297.4	2279.2	2188.3	2161.0	2161.0	2167.0
40°	7798.3	3891.6	2121.6	2206.4	2197.3	2212.5	2079.1	2088.2	2088.2	2091.3	2076.1
42.5°	7992.3	3718.8	2085.2	2133.7	2148.9	2070.0	1988.2	1979.1	2000.3	1997.3	1985.2
45°	8062.0	3576.4	2033.7	2051.9	2064.0	1933.7	1894.3	1876.1	1900.3	1909.4	1921.5
47.5°	7795.3	3458.2	1976.1	1939.7	1915.5	1830.6	1779.1	1745.8	1776.1	1827.6	1839.7
50°	7452.8	3303.6	1885.2	1815.5	1763.9	1727.6	1691.2	1657.9	1679.1	1715.4	1706.4
52.5°	6946.6	3061.1	1770.0	1697.3	1609.4	1618.5	1585.1	1566.9	1579.1	1579.1	1570.0
55°	6225.3	2515.6	1576.0	1524.5	1451.8	1476.0	1482.1	1457.8	1433.6	1454.8	1436.6
57.5°	4249.2	1776.1	1406.3	1406.3	1333.6	1366.9	1363.9	1306.3	1248.7	1254.8	1242.6
60°	2458.0	1415.4	1297.2	1285.1	1209.3	1236.6	1242.6	1203.2	1115.3	1121.4	1109.3
62.5°	1397.2	1209.3	1133.5	1115.3	1100.2	1124.4	1124.4	1072.9	997.1	1003.2	991.1
65°	1188.1	1121.4	1012.3	1009.3	1003.2	1009.3	985.0	930.5	863.8	836.5	839.5
67.5°	1079.0	1036.5	930.5	903.2	885.0	882.0	836.5	785.0	754.7	730.4	727.4
70°	945.6	912.3	833.5	797.1	778.9	736.5	691.0	657.7	615.3	603.1	615.3
72.5°	748.6	745.6	715.3	675.9	636.5	603.1	563.7	518.3	478.9	469.8	448.6
75°	518.3	524.3	530.4	524.3	491.0	448.6	403.1	366.7	318.2	291.0	284.9
77.5°	339.5	348.5	357.6	345.5	324.3	284.9	254.6	209.1	172.8	151.5	148.5
80°	248.5	260.7	266.7	257.6	233.4	203.1	169.7	133.4	106.1	87.9	87.9
82.5°	190.9	203.1	209.1	194.0	169.7	145.5	121.2	94.0	72.7	57.6	54.6
85°	66.7	63.6	75.8	78.8	94.0	87.9	72.7	54.6	42.4	30.3	27.3
87.5°	18.2	18.2	21.2	21.2	18.2	15.2	15.2	15.2	12.1	9.1	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)