

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: P529357

Luminaire Tested: **GALN-SA4C-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529357
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-SA4C-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 14941 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

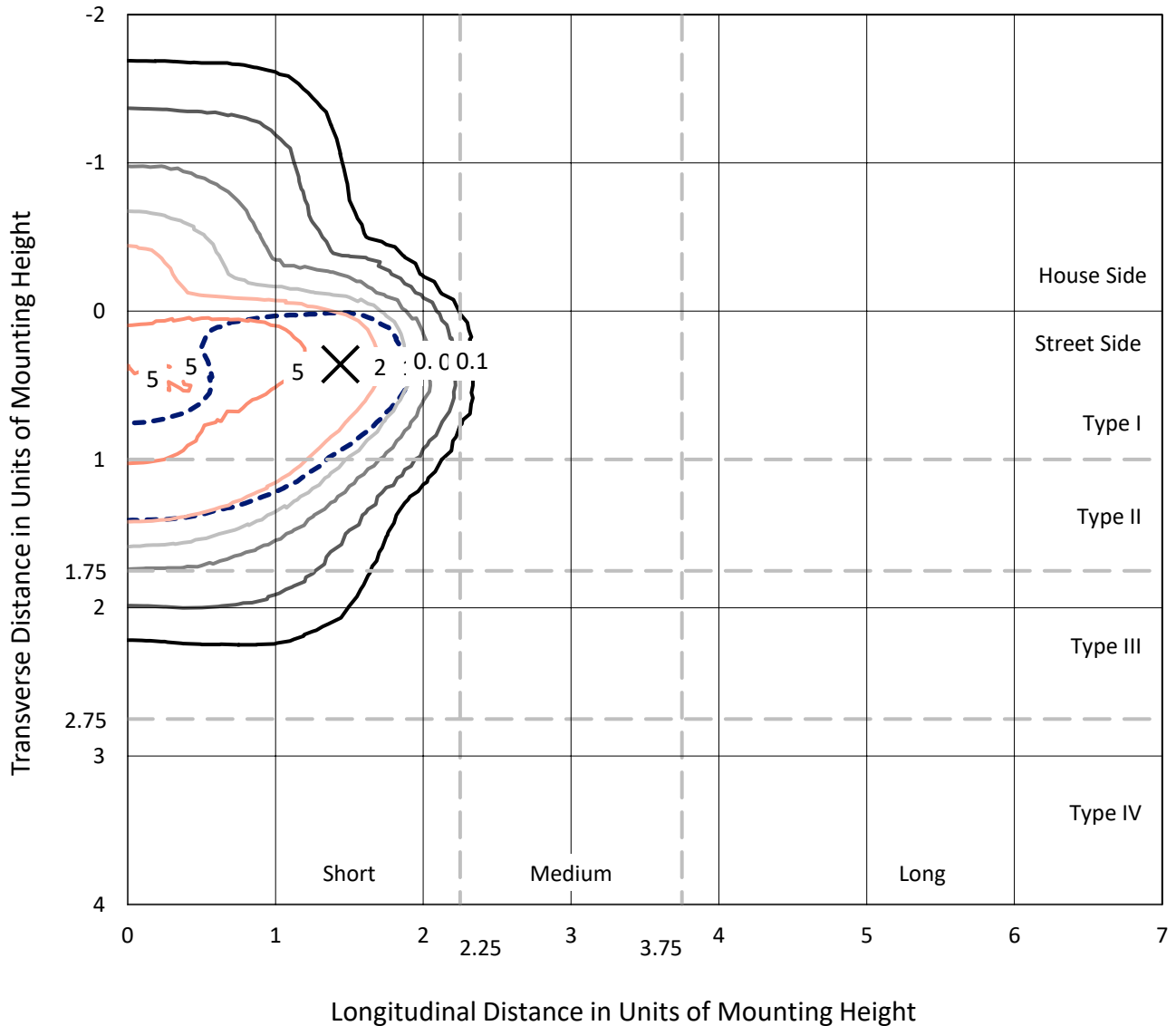
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

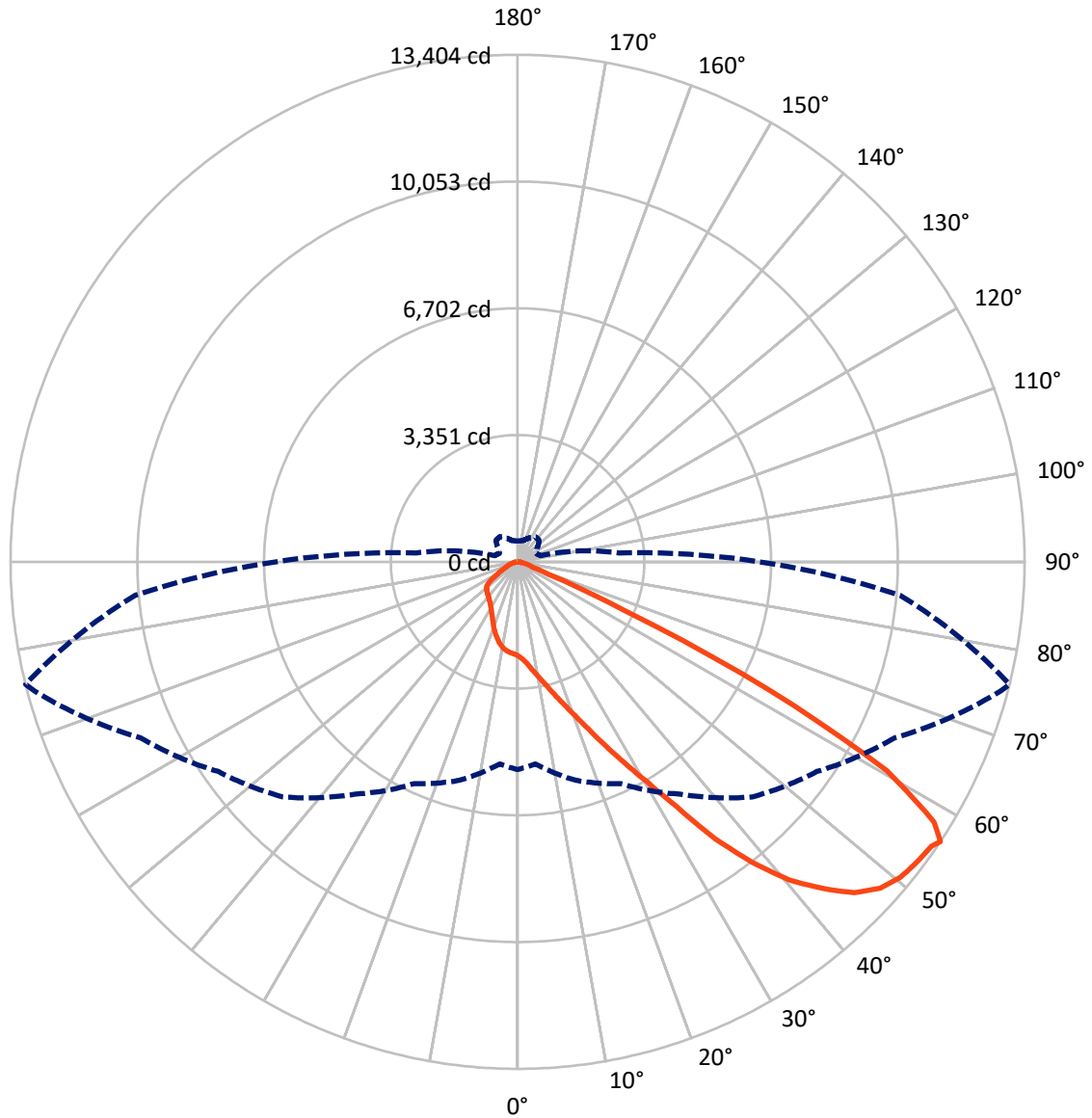
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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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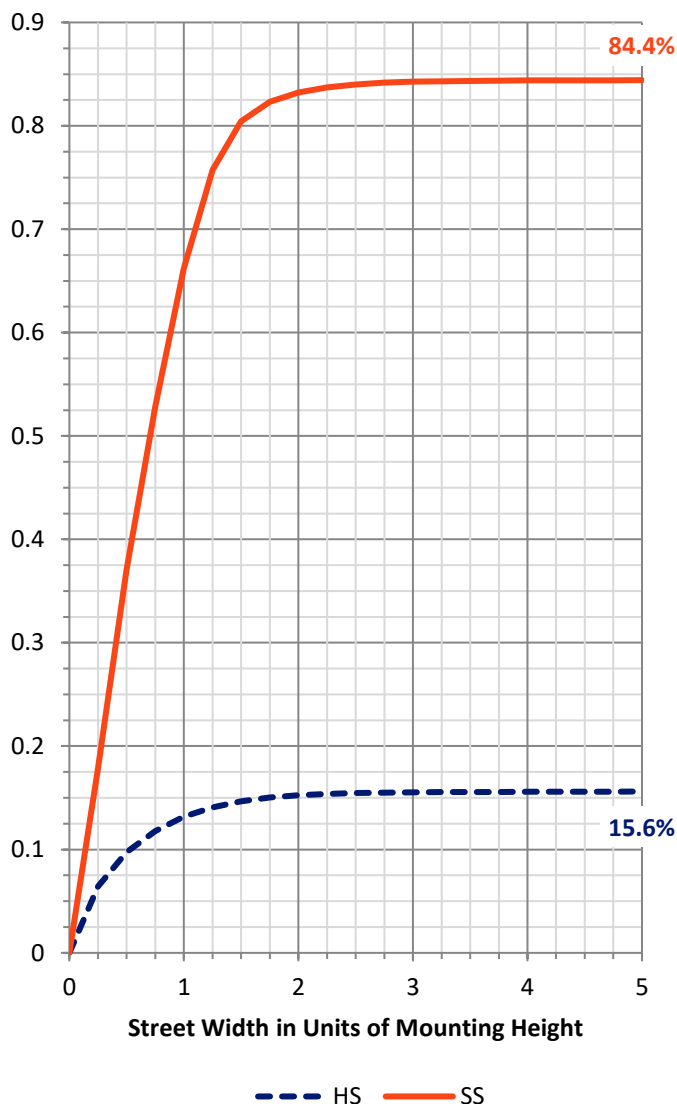
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2347.2	0.0	2347.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12593.9	0.0	12593.9
	% Fixture	84.3	0.0	84.3
Total	Lumens	14941.0	0.0	14941.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.5	1.7
10°-20°	804.8	5.4
20°-30°	1459.4	9.8
30°-40°	2516.8	16.8
40°-50°	4088.6	27.4
50°-60°	4309.6	28.8
60°-70°	1316.8	8.8
70°-80°	168.8	1.1
80°-90°	25.7	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°	14941.0	100.0
0°-180°	14941.0	100.0

Coefficient of Utilization



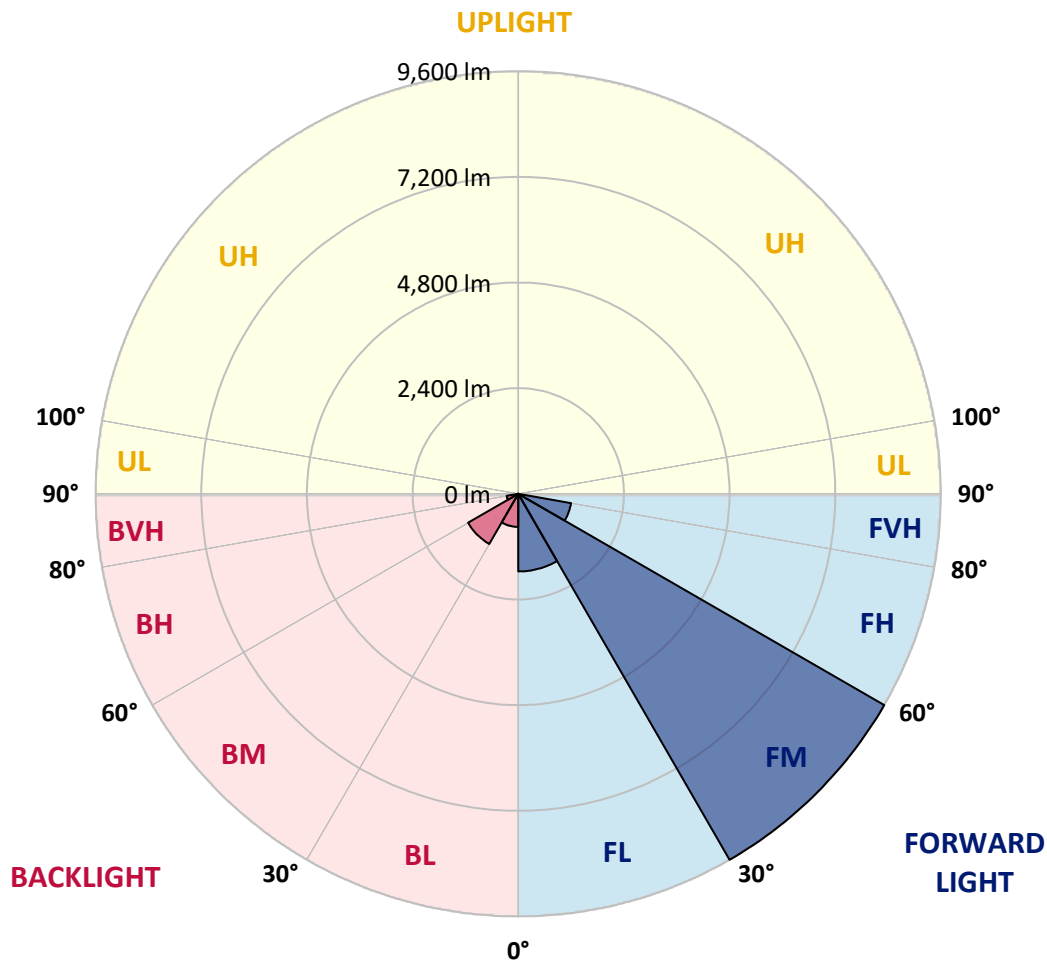
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.9	11.8			
FM (30°-60°)	9599.6	64.2			
FH (60°-80°)	1217.8	8.2			G1/1800
FVH (80°-90°)	12.6	0.1			G1/100
BL (0°-30°)	750.9	5.0	B2/1000		
BM (30°-60°)	1315.4	8.8	B2/2500		
BH (60°-80°)	267.8	1.8	B1/500		G1/500
BVH (80°-90°)	13.1	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°	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0
2.5°	2864.3	2798.2	2800.9	2795.4	2787.1	2756.9	2666.0	2652.2	2591.6	2575.1	2520.0
5°	3208.5	3150.7	3183.7	3134.2	3087.3	3059.8	2911.1	2842.2	2745.8	2710.0	2632.9
7.5°	3423.3	3395.8	3384.8	3387.5	3343.5	3274.6	3208.5	3057.1	2927.6	2900.1	2737.6
10°	3528.0	3511.5	3528.0	3519.7	3539.0	3547.3	3431.6	3340.7	3150.7	3103.9	2850.5
12.5°	3552.8	3585.8	3599.6	3635.4	3682.2	3762.1	3753.8	3629.9	3376.5	3346.2	3024.0
15°	3613.4	3640.9	3627.1	3685.0	3773.1	3908.1	3979.7	3960.4	3687.7	3632.7	3225.1
17.5°	3668.5	3618.9	3665.7	3781.4	3869.5	4076.1	4249.6	4329.4	4026.5	3963.1	3409.6
20°	3742.8	3729.1	3720.8	3778.6	3935.6	4211.0	4555.3	4701.2	4406.6	4340.5	3674.0
22.5°	3968.7	3971.4	3965.9	3880.5	3993.4	4304.7	4822.4	5183.2	4861.0	4805.9	3974.2
25°	4266.1	4230.3	4202.8	4133.9	4120.1	4390.0	5092.3	5772.6	5406.3	5367.7	4299.1
27.5°	4580.1	4580.1	4497.4	4434.1	4346.0	4602.1	5340.2	6345.4	6064.5	6012.2	4582.8
30°	4921.6	4940.9	4929.8	4794.9	4739.8	4833.4	5593.6	7078.0	6819.2	6753.1	5051.0
32.5°	5425.6	5384.3	5431.1	5318.2	5155.7	5238.3	5992.9	7733.5	7799.6	7706.0	5665.2
35°	6092.1	6067.3	6037.0	5852.5	5659.7	5725.8	6557.5	8540.5	9030.7	8983.9	6284.9
37.5°	6689.7	6675.9	6651.2	6524.5	6301.4	6381.2	7199.2	9380.5	10231.5	10077.3	7160.7
40°	7317.6	7392.0	7312.1	7199.2	6995.4	7171.7	7953.8	9879.0	11242.2	11055.0	7829.9
42.5°	8168.7	8110.8	8146.6	7940.1	7829.9	8022.7	8711.2	10377.4	12027.2	11804.1	8540.5
45°	9074.8	9077.5	8981.1	8915.0	8628.6	8837.9	9176.7	10652.9	12652.3	12478.8	9077.5
47.5°	9655.9	9653.1	9757.8	9862.4	9567.7	9361.2	9493.4	10914.5	12974.6	12894.7	9273.1
50°	9565.0	9592.5	9727.5	10118.6	10272.8	9994.6	9790.8	10837.4	13120.5	13112.3	9441.1
52.5°	8320.1	8411.0	8636.9	9201.4	9978.1	10322.4	10102.0	10980.6	13192.1	13205.9	9691.7
55°	6334.4	6384.0	6813.6	7499.4	8358.7	9537.4	9978.1	11093.5	13247.2	13272.0	9994.6
56°	5494.4	5362.2	5981.9	6469.4	7496.7	8785.6	9664.1	11005.4	13214.2	13404.2	10146.1
57.5°	4147.7	4059.5	4560.8	5169.4	6158.2	7518.7	8689.2	10589.5	12991.1	12988.3	9928.5
60°	2522.8	2434.6	2820.2	3178.2	3731.8	4629.6	5871.7	8433.1	10983.3	11214.7	8039.2
62.5°	1501.0	1556.1	1936.1	2153.7	2332.7	2426.4	3037.8	5012.5	7328.7	7493.9	4987.7
65°	999.7	1019.0	1305.4	1663.5	1743.3	1388.1	1236.6	2029.8	3178.2	3076.3	2057.3
67.5°	616.9	661.0	875.8	1250.4	1385.3	1013.5	586.6	757.4	875.8	875.8	594.9
70°	374.6	396.6	583.9	851.0	950.2	652.7	426.9	426.9	421.4	413.1	355.3
72.5°	179.0	192.8	297.4	437.9	446.2	344.3	330.5	360.8	352.5	349.8	294.7
75°	77.1	82.6	104.7	137.7	157.0	146.0	201.0	258.9	267.1	258.9	212.1
77.5°	24.8	27.5	38.6	49.6	52.3	63.3	85.4	107.4	123.9	115.7	104.7
80°	2.8	5.5	11.0	24.8	38.6	49.6	63.3	71.6	79.9	79.9	74.4
82.5°	2.8	2.8	11.0	22.0	35.8	46.8	60.6	68.9	79.9	82.6	77.1
85°	0.0	2.8	8.3	19.3	30.3	30.3	27.5	27.5	19.3	19.3	19.3
87.5°	0.0	0.0	2.8	2.8	2.8	5.5	5.5	5.5	5.5	5.5	5.5
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°	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0	2487.0
2.5°	2509.0	2503.5	2429.1	2382.3	2357.5	2307.9	2277.6	2255.6	2239.1	2219.8	2222.6
5°	2542.0	2522.8	2398.8	2313.4	2211.5	2156.5	2109.6	2071.1	2046.3	2040.8	2029.8
7.5°	2635.7	2533.8	2346.5	2192.3	2062.8	2007.7	1966.4	1941.6	1952.7	1927.9	1947.1
10°	2707.3	2555.8	2283.1	2060.1	1930.6	1889.3	1867.3	1886.6	1914.1	1903.1	1889.3
12.5°	2795.4	2577.8	2181.2	1933.4	1812.2	1781.9	1820.5	1856.3	1911.3	1933.4	1905.8
15°	2894.6	2602.6	2051.8	1787.4	1710.3	1735.1	1801.2	1864.5	1919.6	1947.1	1963.7
17.5°	3015.7	2594.4	1925.1	1671.7	1613.9	1685.5	1765.4	1823.2	1905.8	1947.1	1936.1
20°	3128.7	2566.8	1784.7	1556.1	1558.8	1624.9	1691.0	1784.7	1828.7	1883.8	1864.5
22.5°	3236.1	2517.2	1638.7	1476.2	1476.2	1578.1	1611.1	1671.7	1710.3	1737.8	1735.1
25°	3387.5	2423.6	1517.5	1399.1	1432.1	1498.2	1525.8	1545.0	1528.5	1550.6	1553.3
27.5°	3495.0	2327.2	1418.4	1330.2	1390.8	1440.4	1432.1	1421.1	1382.6	1352.3	1371.5
30°	3610.6	2214.3	1333.0	1283.4	1316.5	1360.5	1327.5	1294.4	1233.8	1184.3	1187.0
32.5°	3775.9	2162.0	1258.6	1228.3	1272.4	1277.9	1242.1	1192.5	1131.9	1085.1	1082.4
35°	4084.3	2128.9	1195.3	1192.5	1200.8	1203.5	1167.7	1107.1	1082.4	1043.8	1057.6
37.5°	4392.8	2112.4	1151.2	1140.2	1137.4	1140.2	1098.9	1041.0	1087.9	1085.1	1090.6
40°	4786.6	2186.8	1087.9	1074.1	1076.9	1076.9	1024.5	1008.0	1090.6	1098.9	1101.6
42.5°	5186.0	2280.4	1046.6	1002.5	1013.5	1013.5	986.0	966.7	1024.5	969.4	961.2
45°	5533.0	2418.1	1002.5	930.9	958.4	972.2	963.9	930.9	895.1	801.4	801.4
47.5°	5645.9	2539.3	950.2	862.0	884.1	944.7	919.9	851.0	787.7	710.6	705.0
50°	5844.2	2671.5	908.9	782.2	829.0	903.3	878.6	809.7	738.1	683.0	685.8
52.5°	6048.0	2823.0	831.7	688.5	746.4	870.3	870.3	793.2	683.0	644.5	639.0
55°	6353.7	2817.4	694.0	564.6	666.5	820.7	834.5	710.6	611.4	581.1	581.1
56°	6397.8	2690.8	625.2	528.8	630.7	807.0	809.7	688.5	583.9	550.8	550.8
57.5°	6067.3	2429.1	548.1	484.7	586.6	782.2	784.9	669.2	561.8	515.0	509.5
60°	4668.2	1644.2	457.2	432.4	531.5	705.0	718.8	608.7	493.0	457.2	454.4
62.5°	2635.7	911.6	402.1	391.1	457.2	600.4	641.7	531.5	418.6	399.3	404.9
65°	1203.5	501.2	338.8	316.7	369.0	462.7	517.8	437.9	344.3	322.2	322.2
67.5°	440.7	341.5	289.2	250.6	258.9	300.2	336.0	283.7	228.6	195.5	203.8
70°	314.0	286.4	253.4	217.6	201.0	195.5	192.8	159.7	112.9	88.1	93.6
72.5°	253.4	236.9	212.1	184.5	157.0	132.2	112.9	82.6	52.3	35.8	33.0
75°	181.8	173.5	154.2	132.2	110.2	93.6	77.1	52.3	27.5	13.8	13.8
77.5°	93.6	93.6	90.9	82.6	68.9	55.1	44.1	30.3	16.5	5.5	5.5
80°	71.6	77.1	79.9	71.6	63.3	49.6	35.8	22.0	11.0	2.8	2.8
82.5°	68.9	79.9	85.4	74.4	63.3	46.8	35.8	22.0	11.0	2.8	2.8
85°	16.5	16.5	24.8	27.5	35.8	38.6	30.3	19.3	8.3	2.8	2.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	2.8	2.8	2.8	2.8	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)