

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: P941459

Luminaire Tested: **GALN-SB5A-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22396 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

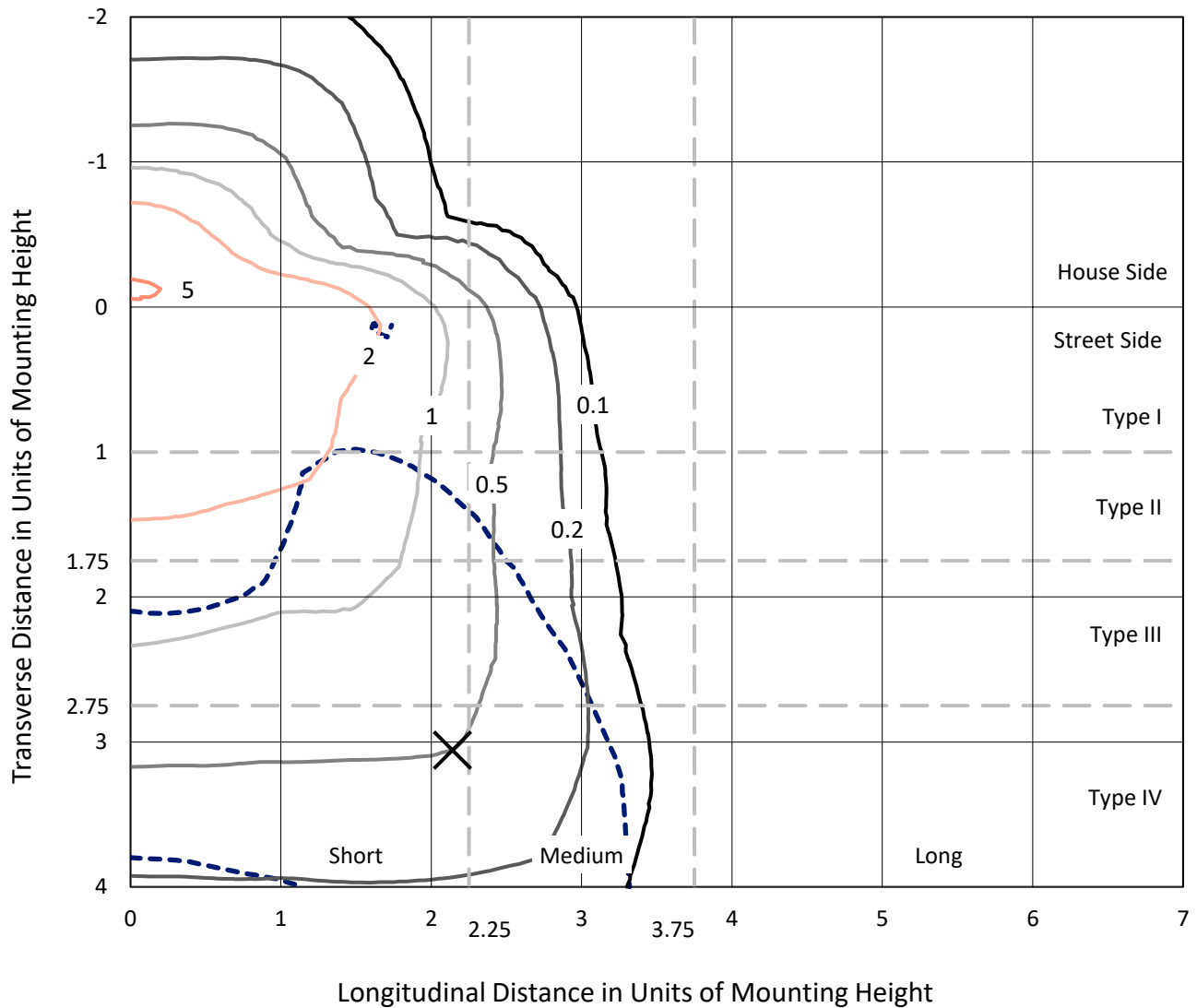
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

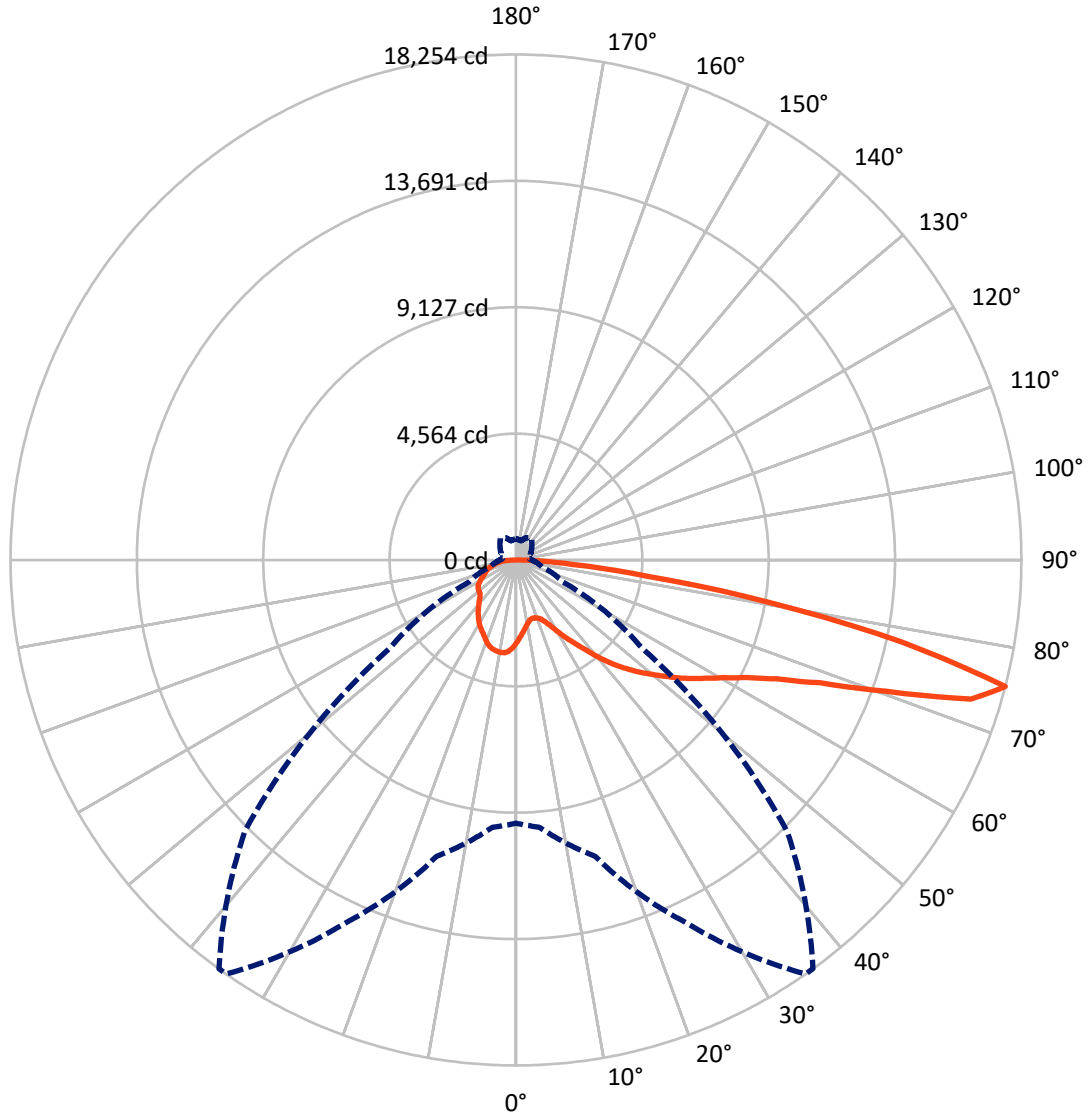
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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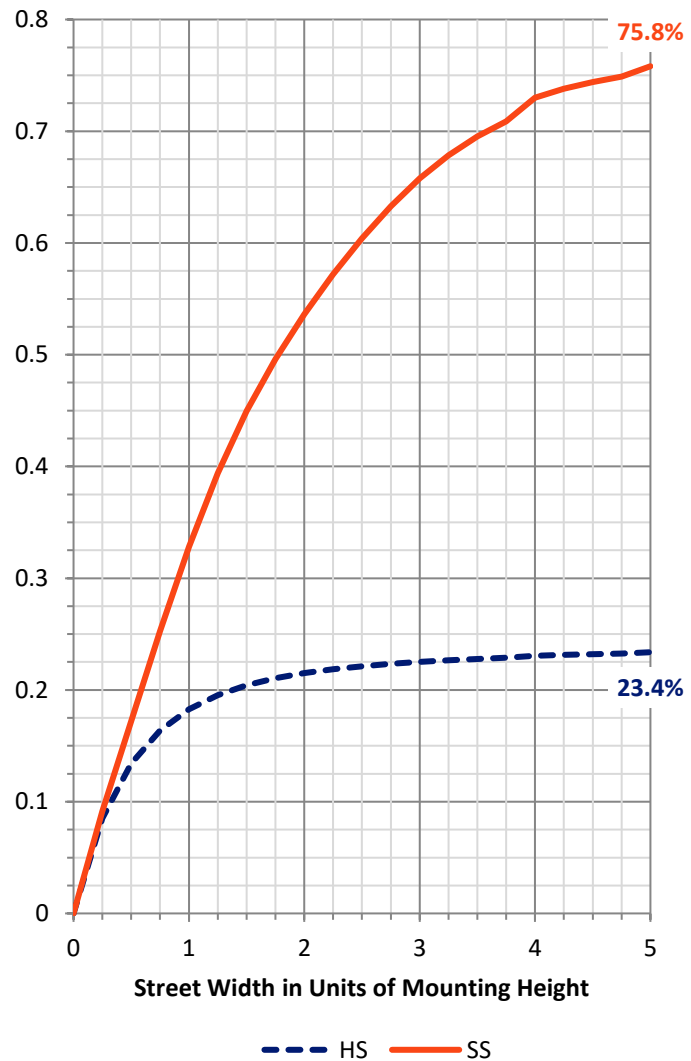
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5329.7	0.0	5329.7
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	17066.3	0.0	17066.3
	% Fixture	76.2	0.0	76.2
Total	Lumens	22396.0	0.0	22396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.6	1.3
10°-20°	815.0	3.6
20°-30°	1368.7	6.1
30°-40°	2127.1	9.5
40°-50°	3157.2	14.1
50°-60°	4358.7	19.5
60°-70°	5288.1	23.6
70°-80°	4370.2	19.5
80°-90°	628.6	2.8
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°	22396.0	100.0
0°-180°	22396.0	100.0

Coefficient of Utilization



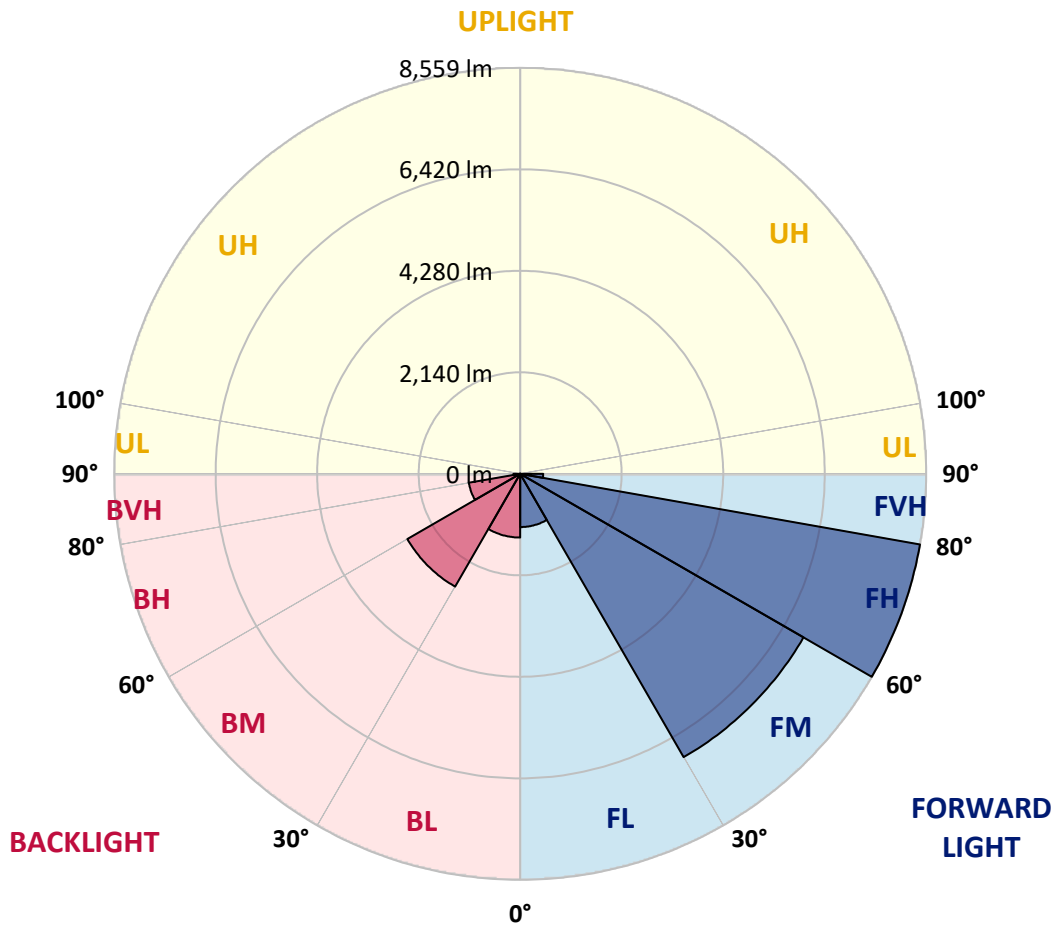
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1123.1	5.0			
FM (30°-60°)	6896.7	30.8			
FH (60°-80°)	8559.4	38.2			G4/12000
FVH (80°-90°)	487.0	2.2			G3/500
BL (0°-30°)	1343.2	6.0	B3/2500		
BM (30°-60°)	2746.2	12.3	B3/5000		
BH (60°-80°)	1098.8	4.9	B3/2500		G3/2500
BVH (80°-90°)	141.5	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4
2.5°	2752.0	2768.9	2776.2	2772.5	2790.7	2788.3	2813.7	2845.2	2888.8	2931.1	2992.9
5°	2540.1	2558.2	2574.0	2588.5	2623.6	2634.5	2674.5	2735.0	2814.9	2896.0	2997.7
7.5°	2342.7	2358.5	2382.7	2409.3	2468.7	2479.5	2546.1	2640.6	2752.0	2870.6	3011.1
10°	2181.7	2197.5	2222.9	2253.1	2327.0	2340.3	2425.1	2551.0	2696.3	2846.4	3025.6
12.5°	2112.7	2117.5	2132.1	2162.3	2226.5	2235.0	2328.2	2472.3	2641.8	2828.2	3047.4
15°	2109.1	2118.8	2120.0	2135.7	2189.0	2192.6	2278.6	2421.4	2607.9	2824.6	3080.1
17.5°	2145.4	2152.7	2141.8	2151.4	2196.2	2202.3	2270.1	2397.2	2597.0	2840.3	3135.8
20°	2242.2	2248.3	2215.6	2202.3	2235.0	2239.8	2306.4	2413.0	2607.9	2873.0	3212.0
22.5°	2448.1	2451.7	2371.8	2317.3	2319.7	2322.2	2380.3	2477.1	2650.3	2932.4	3308.9
25°	2768.9	2766.5	2639.4	2534.0	2473.5	2460.2	2498.9	2581.2	2721.7	3011.1	3433.6
27.5°	3144.2	3126.1	2998.9	2841.6	2709.6	2690.2	2681.7	2716.8	2823.4	3115.2	3586.1
30°	3568.0	3551.0	3414.2	3208.4	3025.6	2994.1	2914.2	2896.0	2974.7	3256.8	3798.0
32.5°	4032.9	4022.0	3858.6	3609.1	3364.6	3328.3	3193.9	3145.4	3207.2	3471.1	4093.4
35°	4422.8	4413.1	4277.5	4020.8	3721.7	3676.9	3540.1	3485.7	3517.1	3746.0	4479.7
37.5°	4775.1	4770.2	4654.0	4451.8	4143.1	4088.6	3934.8	3916.7	3910.6	4108.0	4948.2
40°	5102.0	5089.9	4968.8	4862.2	4633.4	4583.8	4448.2	4432.4	4386.4	4553.5	5478.5
42.5°	5464.0	5432.5	5256.9	5207.3	5145.5	5104.4	5023.3	5025.7	4924.0	5056.0	6040.3
45°	5759.4	5741.2	5560.8	5531.8	5598.4	5581.4	5651.6	5669.8	5472.4	5582.6	6623.8
47.5°	6076.6	6059.6	5907.1	5886.5	6066.9	6071.7	6319.9	6326.0	6007.6	6129.9	7208.6
50°	6467.7	6443.4	6292.1	6317.5	6519.7	6537.9	6991.9	6950.7	6500.3	6685.6	7788.5
52.5°	6725.5	6740.1	6707.4	6748.5	7024.6	7041.5	7652.9	7547.6	6988.3	7234.0	8357.6
55°	6915.6	6944.7	7046.4	7140.8	7557.3	7574.2	8276.5	8115.4	7392.6	7742.5	8892.7
57.5°	7160.2	7119.0	7309.1	7493.1	8063.4	8108.2	8883.0	8662.7	7751.0	8180.8	9259.6
60°	7511.3	7482.2	7629.9	7902.4	8630.0	8701.4	9524.7	9155.4	8013.7	8528.3	9331.0
62.5°	8223.2	8150.5	8173.6	8414.5	9344.3	9438.8	10248.7	9585.3	8144.5	8663.9	8948.4
65°	9287.4	9162.7	9046.5	9213.6	10350.4	10443.6	11066.0	9923.0	8096.1	8401.2	7932.6
67.5°	10627.7	10504.2	10361.3	10518.7	11832.3	11906.2	12074.5	10113.1	7714.7	7389.0	6137.1
70°	11733.1	11687.1	11857.8	12505.5	14199.3	14201.7	13367.5	9955.7	6669.8	5238.8	3551.0
72.5°	11586.6	11558.7	12458.3	14460.8	17182.5	17118.3	14591.6	8764.4	4493.0	2363.3	1330.6
75°	9505.3	9685.7	11079.3	14425.7	18254.0	18245.5	13842.1	5571.7	1858.5	979.5	687.7
77.5°	5097.1	5382.8	7192.9	10650.7	14250.1	14464.4	9731.7	1949.3	797.9	627.2	475.8
80°	1662.3	1911.7	2867.0	5422.8	9259.6	9219.6	4170.9	765.2	546.0	444.3	329.3
82.5°	705.8	734.9	1280.9	2560.7	4752.1	4678.2	1328.2	439.5	383.8	303.9	203.4
85°	276.0	308.7	565.4	1184.1	2058.2	2013.4	479.4	217.9	245.8	198.6	121.1
87.5°	90.8	110.2	202.2	405.6	640.5	617.5	117.4	75.1	106.5	90.8	43.6
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°	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4	2984.4
2.5°	3009.8	3029.2	3052.2	3086.1	3115.2	3139.4	3164.8	3180.6	3186.6	3204.8	3203.6
5°	3031.6	3074.0	3130.9	3186.6	3241.1	3273.8	3302.8	3317.4	3330.7	3340.4	3342.8
7.5°	3068.0	3122.4	3212.0	3284.7	3330.7	3357.3	3376.7	3371.8	3376.7	3379.1	3382.7
10°	3099.4	3175.7	3282.3	3351.3	3386.4	3387.6	3382.7	3365.8	3357.3	3358.5	3361.0
12.5°	3137.0	3221.7	3336.7	3394.9	3404.5	3377.9	3357.3	3328.3	3317.4	3312.5	3310.1
15°	3187.8	3284.7	3396.1	3417.9	3393.6	3359.7	3324.6	3277.4	3253.2	3233.8	3239.9
17.5°	3249.6	3356.1	3442.1	3426.3	3374.3	3318.6	3261.7	3190.2	3140.6	3120.0	3121.2
20°	3335.5	3431.2	3477.2	3408.2	3329.5	3244.7	3147.9	3060.7	3014.7	2994.1	2991.7
22.5°	3439.6	3531.7	3511.1	3376.7	3265.3	3129.7	3008.6	2944.5	2921.5	2906.9	2909.4
25°	3564.4	3643.0	3535.3	3330.7	3160.0	2977.2	2883.9	2863.3	2852.5	2841.6	2841.6
27.5°	3726.6	3769.0	3553.5	3262.9	2995.3	2814.9	2781.0	2784.7	2781.0	2762.9	2766.5
30°	3940.9	3932.4	3570.4	3152.7	2806.4	2668.4	2670.8	2686.6	2689.0	2676.9	2682.9
32.5°	4223.0	4137.0	3578.9	3009.8	2626.0	2540.1	2542.5	2559.5	2571.6	2551.0	2560.7
35°	4564.4	4375.5	3565.6	2830.7	2486.8	2417.8	2399.6	2404.5	2408.1	2388.7	2402.1
37.5°	4962.7	4643.1	3506.2	2632.1	2371.8	2297.9	2259.2	2226.5	2207.1	2189.0	2201.1
40°	5399.8	4934.9	3397.3	2438.4	2243.5	2170.8	2112.7	2051.0	1985.6	1961.4	1972.3
42.5°	5857.5	5235.1	3265.3	2253.1	2095.8	2036.4	1974.7	1885.1	1787.0	1737.4	1743.4
45°	6332.1	5542.7	3135.8	2070.3	1944.4	1919.0	1847.6	1739.8	1633.3	1570.3	1565.5
47.5°	6797.0	5833.2	2945.7	1886.3	1802.8	1830.6	1774.9	1675.6	1557.0	1457.7	1446.8
50°	7241.3	6105.6	2634.5	1699.8	1687.7	1804.0	1750.7	1607.8	1472.2	1345.1	1334.2
52.5°	7682.0	6326.0	2236.2	1530.3	1626.0	1796.7	1719.2	1561.8	1396.0	1262.8	1248.2
55°	8056.1	6439.8	1852.4	1385.1	1536.4	1735.0	1681.7	1507.3	1288.2	1146.5	1134.4
57.5°	8269.2	6347.8	1532.8	1242.2	1412.9	1633.3	1617.5	1391.1	1159.9	1050.9	1036.4
60°	8177.2	5974.9	1271.3	1117.5	1295.5	1523.1	1506.1	1276.1	1061.8	958.9	944.4
62.5°	7669.9	5264.2	1064.2	1008.5	1188.9	1410.5	1394.7	1187.7	986.7	887.5	871.7
65°	6648.0	4282.3	903.2	917.7	1081.2	1274.9	1297.9	1113.9	927.4	830.6	814.8
67.5°	5070.5	3101.9	777.3	839.0	975.8	1141.7	1208.3	1060.6	877.8	785.8	771.2
70°	2890.0	1761.6	670.7	762.8	882.6	1018.2	1139.3	1018.2	824.5	748.2	738.5
72.5°	1095.7	808.8	579.9	686.5	793.0	914.1	1063.0	951.6	762.8	705.8	696.2
75°	584.8	492.8	487.9	596.9	690.1	812.4	967.4	886.2	716.7	745.8	770.0
77.5°	398.3	348.7	408.0	510.9	577.5	699.8	865.7	787.0	621.1	618.7	570.2
80°	276.0	247.0	331.7	411.6	446.8	588.4	755.5	675.6	506.1	472.2	451.6
82.5°	165.9	161.0	248.2	307.5	316.0	454.0	625.9	566.6	414.1	360.8	363.2
85°	90.8	95.6	158.6	180.4	184.0	317.2	490.3	438.3	318.4	267.6	270.0
87.5°	25.4	32.7	58.1	71.4	88.4	164.7	291.8	260.3	159.8	111.4	111.4
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)