

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: P529594

Luminaire Tested: **GALN-SA4D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529594
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
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-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24491 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

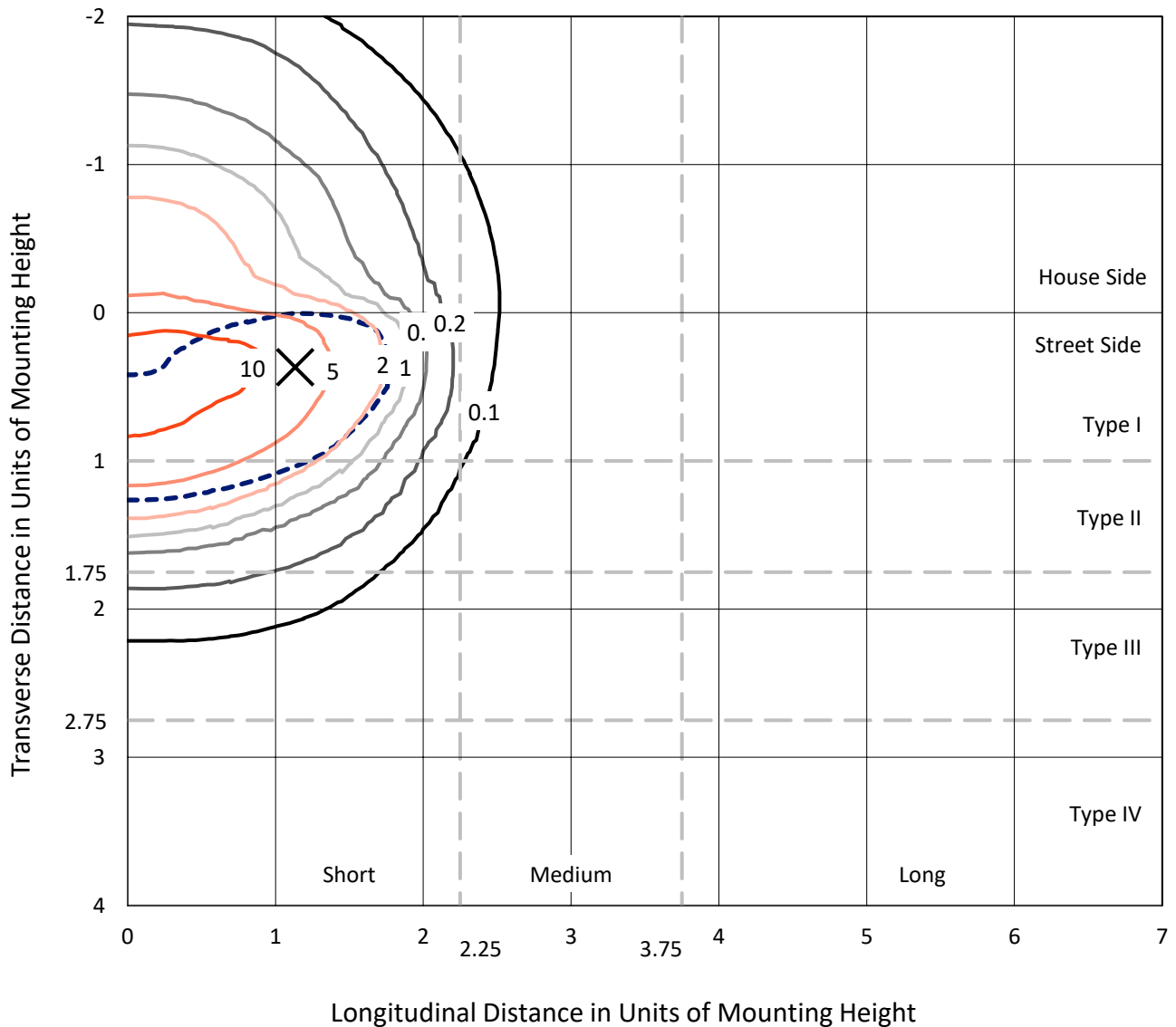
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

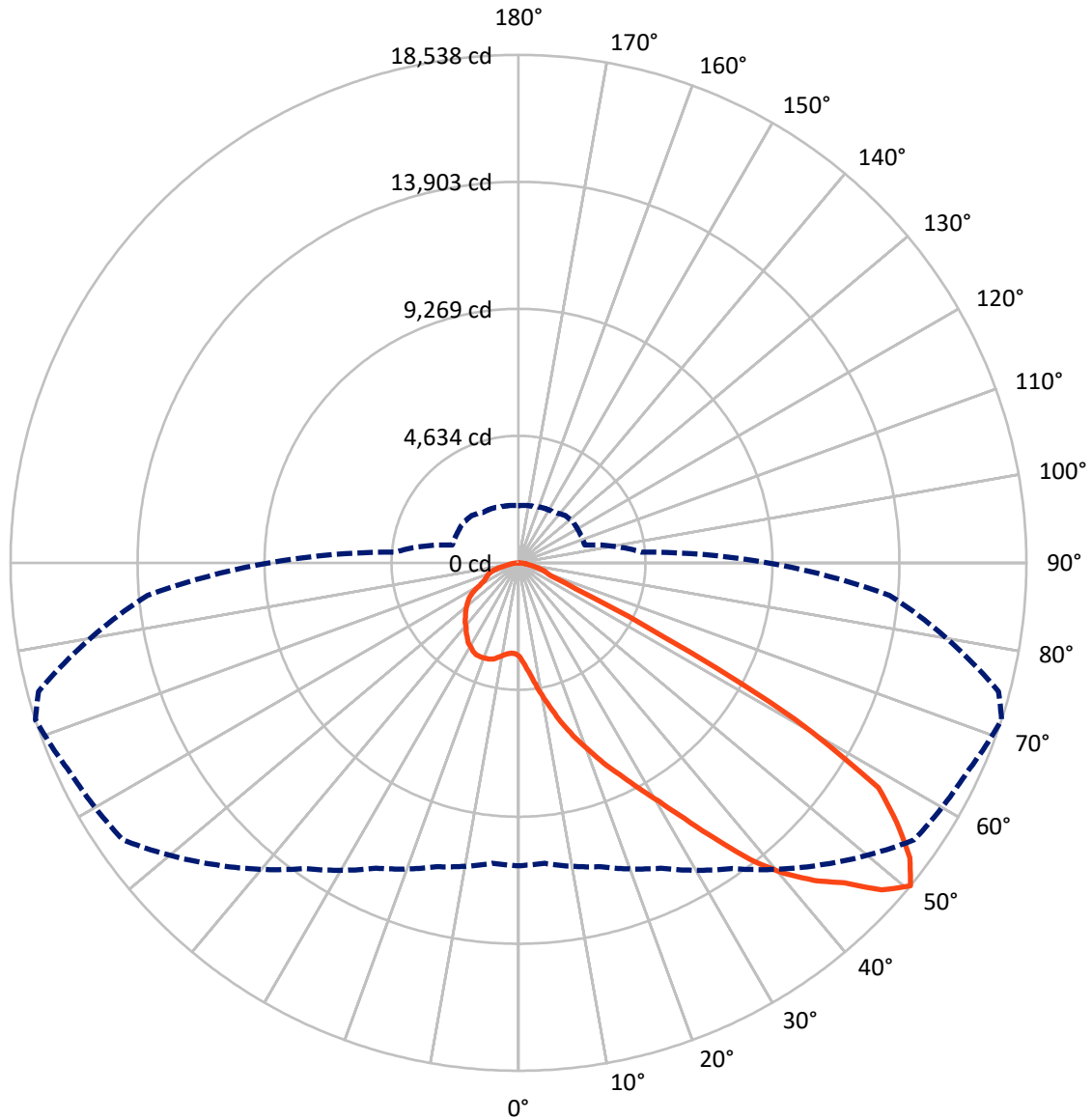
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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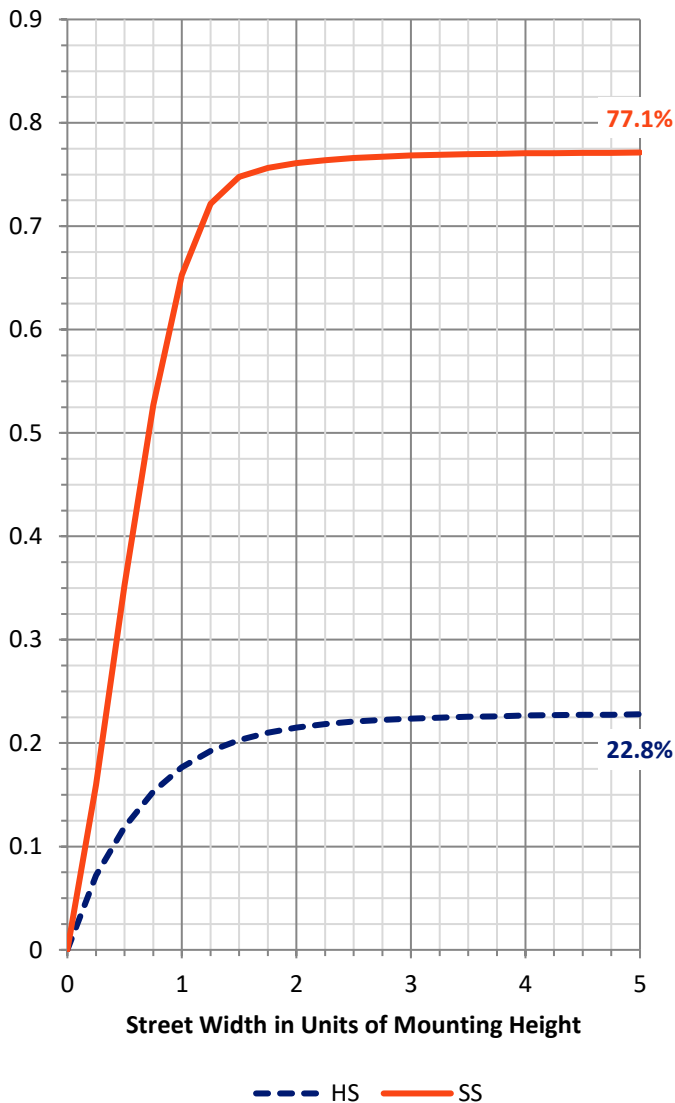
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5611.0	0.0	5611.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18880.0	0.0	18880.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	24491.0	0.0	24491.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.0	1.6
10°-20°	1499.2	6.1
20°-30°	2906.8	11.9
30°-40°	4815.5	19.7
40°-50°	6738.0	27.5
50°-60°	5684.4	23.2
60°-70°	1732.6	7.1
70°-80°	607.8	2.5
80°-90°	105.7	0.4
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°	24491.0	100.0
0°-180°	24491.0	100.0

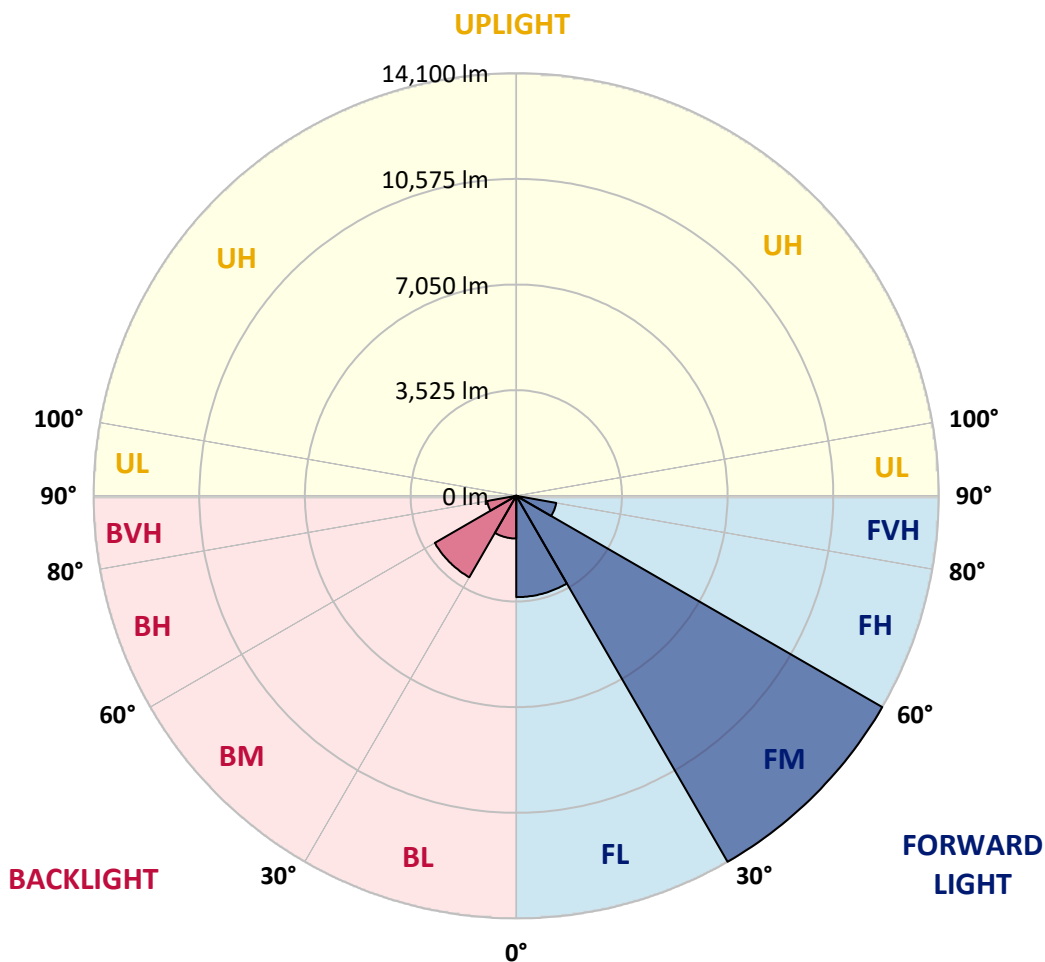


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3380.6	13.8			
FM (30°-60°)	14100.1	57.6			
FH (60°-80°)	1351.9	5.5			G1/1800
FVH (80°-90°)	47.3	0.2			G1/100
BL (0°-30°)	1426.3	5.8	B3/2500		
BM (30°-60°)	3137.8	12.8	B3/5000		
BH (60°-80°)	988.6	4.0	B2/1000		G2/1000
BVH (80°-90°)	58.3	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°	55°	65°	72°	75°	85°
0°	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4
2.5°	4385.2	4357.9	4276.1	4248.8	4151.8	3976.1	3915.5	3736.7	3660.9	3591.2	3509.4
5°	5545.9	5418.6	5409.5	5255.0	5030.7	4900.4	4512.5	4251.8	4012.4	3891.2	3667.0
7.5°	6285.3	6288.4	6288.4	6161.1	5982.3	5652.0	5303.4	4833.7	4473.1	4294.3	3912.4
10°	6988.4	6927.8	6894.5	6882.4	6761.1	6439.9	6067.1	5485.3	4991.3	4782.2	4097.3
12.5°	7485.4	7433.9	7509.7	7470.3	7382.4	7173.3	6821.7	6158.1	5539.8	5258.0	4394.3
15°	7721.8	7758.2	7818.8	7927.9	7888.5	7809.7	7421.8	6849.0	6130.8	5812.6	4657.9
17.5°	8085.5	7985.5	8058.2	8194.6	8303.7	8267.3	8046.1	7349.1	6715.7	6324.7	5012.5
20°	8340.0	8282.5	8318.8	8476.4	8558.2	8764.3	8649.2	8003.7	7276.3	6864.2	5430.7
22.5°	9067.4	8982.5	8864.3	8888.6	8918.9	9064.3	9091.6	8721.9	7927.9	7491.5	5827.7
25°	9964.4	9885.6	9746.2	9603.8	9515.9	9488.6	9582.6	9285.6	8552.2	8100.6	6255.0
27.5°	10952.4	10819.0	10731.1	10437.2	10200.8	10164.4	10119.0	9958.4	9291.6	8803.7	6736.9
30°	11913.0	11807.0	11688.8	11219.1	10973.6	10934.2	10709.9	10755.4	10094.7	9552.3	7282.4
32.5°	12640.4	12649.5	12379.8	12025.2	11794.9	11585.7	11503.9	11634.2	11125.1	10688.7	7891.5
35°	13228.3	13255.6	12998.0	12676.7	12428.2	12573.7	12537.3	12597.9	12355.5	11822.1	8600.7
37.5°	13801.1	13664.7	13388.9	13234.4	13104.0	13343.5	13652.6	13704.1	13749.6	13122.2	9425.0
40°	13895.0	13907.1	13746.5	13855.6	13692.0	14052.6	14770.8	14704.2	14889.0	14340.5	10319.0
42.5°	13761.7	13789.0	13852.6	14007.1	14401.1	14834.5	15901.2	15628.5	15852.7	15364.8	11188.7
45°	13543.5	13431.3	13510.1	14098.1	14779.9	15743.6	16934.7	16722.5	16649.8	16240.7	12225.2
47.5°	12501.0	12616.1	12861.6	13585.9	14610.2	15901.2	17668.0	17619.6	17837.8	17549.8	13167.7
50°	11055.4	11009.9	11482.7	12297.9	13619.2	15592.1	17628.6	18068.1	18537.8	18137.8	13588.9
52.5°	8279.4	8521.9	8928.0	9940.2	11825.2	13907.1	16768.0	17501.4	17883.2	17798.4	13249.5
55°	5233.7	5306.5	5551.9	6755.1	8452.2	11161.5	14373.8	16074.0	16755.8	17074.1	12937.4
57.5°	2542.6	2406.2	2706.3	3673.0	4882.2	7506.6	11085.7	14001.1	15483.0	16058.8	12258.5
60°	1327.4	1378.9	1497.1	1842.6	2524.4	3897.3	6909.6	9331.0	11594.8	12479.8	9291.6
62.5°	1100.1	1118.3	1197.1	1369.8	1678.9	2242.6	3527.5	4548.8	5912.6	6709.6	5285.3
65°	933.4	942.5	1027.4	1142.5	1339.5	1578.9	1815.3	1900.1	2300.2	2360.8	1878.9
67.5°	778.8	787.9	878.9	988.0	1115.2	1178.9	1239.5	1233.4	1278.9	1260.7	1257.7
70°	600.0	609.1	703.1	818.2	881.9	845.5	1033.4	1075.8	1094.0	1109.2	1133.4
72.5°	433.4	451.6	524.3	606.1	572.8	657.6	851.6	915.2	939.5	948.6	978.9
75°	315.2	321.2	339.4	315.2	363.7	457.6	600.0	678.8	709.1	718.2	763.7
77.5°	139.4	142.4	145.5	181.8	233.4	284.9	357.6	421.2	463.7	475.8	487.9
80°	72.7	75.8	93.9	124.3	166.7	209.1	260.6	297.0	324.3	327.3	339.4
82.5°	45.5	48.5	66.7	87.9	118.2	154.6	190.9	221.2	242.4	245.5	248.5
85°	21.2	27.3	39.4	54.5	78.8	100.0	103.0	87.9	93.9	97.0	90.9
87.5°	6.1	9.1	12.1	9.1	12.1	12.1	15.2	18.2	18.2	18.2	21.2
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°	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4	3409.4
2.5°	3463.9	3436.6	3330.6	3291.2	3188.1	3206.3	3151.8	3148.7	3136.6	3133.6	3130.5
5°	3548.8	3463.9	3336.6	3239.6	3182.1	3176.0	3136.6	3136.6	3148.7	3157.8	3136.6
7.5°	3688.2	3591.2	3376.0	3285.1	3233.6	3224.5	3197.2	3176.0	3203.3	3194.2	3169.9
10°	3848.8	3679.1	3451.8	3373.0	3288.1	3266.9	3266.9	3276.0	3230.6	3245.7	3221.5
12.5°	4027.6	3800.3	3548.8	3457.8	3357.8	3345.7	3339.7	3273.0	3297.2	3285.1	3224.5
15°	4254.9	3939.7	3673.0	3518.5	3433.6	3379.1	3300.3	3288.1	3273.0	3242.7	3215.4
17.5°	4500.3	4091.2	3730.6	3536.6	3409.4	3370.0	3309.3	3245.7	3200.2	3206.3	3185.1
20°	4709.5	4230.6	3751.8	3554.8	3391.2	3315.4	3221.5	3182.1	3133.6	3130.5	3127.5
22.5°	4958.0	4418.5	3782.1	3506.3	3336.6	3257.8	3194.2	3124.5	3091.1	3048.7	3069.9
25°	5255.0	4491.3	3788.2	3479.1	3297.2	3157.8	3124.5	3048.7	3036.6	2976.0	2988.1
27.5°	5470.1	4530.7	3739.7	3394.2	3206.3	3100.2	3039.6	2985.1	2963.9	2918.4	2906.3
30°	5758.0	4591.3	3636.6	3288.1	3115.4	2997.2	2960.8	2948.7	2888.1	2839.6	2833.6
32.5°	6085.3	4630.7	3570.0	3179.0	3021.4	2930.5	2948.7	2891.1	2815.4	2772.9	2760.8
35°	6345.9	4645.8	3403.3	3054.8	2957.8	2900.2	2879.0	2866.9	2757.8	2718.4	2688.1
37.5°	6742.9	4612.5	3263.9	2966.9	2888.1	2866.9	2848.7	2766.9	2642.6	2585.0	2542.6
40°	7206.6	4603.4	3085.1	2842.6	2821.4	2845.7	2791.1	2663.8	2491.1	2427.5	2397.2
42.5°	7652.1	4667.0	2973.0	2776.0	2748.7	2757.8	2682.0	2491.1	2406.2	2369.9	2321.4
45°	8397.6	4800.4	2788.1	2672.9	2660.8	2654.8	2563.8	2363.8	2315.3	2269.9	2260.8
47.5°	9070.4	4712.5	2669.9	2566.9	2579.0	2545.7	2351.7	2288.1	2233.5	2188.0	2172.9
50°	9109.8	4503.4	2503.2	2485.0	2488.1	2430.5	2245.6	2203.2	2133.5	2103.2	2082.0
52.5°	8903.7	4160.9	2348.7	2354.7	2363.8	2269.9	2115.3	2085.0	2027.4	1985.0	1972.9
55°	8324.9	3627.6	2197.1	2221.4	2245.6	2066.8	2018.3	1942.6	1897.1	1836.5	1839.5
57.5°	7333.9	2921.4	1985.0	2024.4	2075.9	1878.9	1842.6	1748.6	1681.9	1633.5	1627.4
60°	4915.5	2078.9	1666.8	1681.9	1797.1	1718.3	1715.3	1621.3	1530.4	1488.0	1463.8
62.5°	2900.2	1588.0	1439.5	1424.4	1421.3	1466.8	1542.5	1509.2	1391.0	1309.2	1333.4
65°	1518.3	1372.8	1339.5	1288.0	1257.7	1245.6	1303.1	1318.3	1239.5	1151.6	1145.5
67.5°	1275.9	1275.9	1248.6	1230.4	1188.0	1136.5	1100.1	1051.6	1039.5	1015.2	984.9
70°	1160.7	1191.0	1181.9	1139.5	1103.1	1045.5	951.6	872.8	797.0	769.8	787.9
72.5°	1012.2	1042.5	1042.5	1021.3	972.8	884.9	794.0	703.1	639.4	591.0	584.9
75°	778.8	794.0	830.4	806.1	742.5	687.9	594.0	500.0	439.4	394.0	384.9
77.5°	497.0	521.3	521.3	518.2	472.8	421.2	360.6	294.0	248.5	215.2	206.1
80°	330.3	345.5	357.6	345.5	315.2	275.8	230.3	184.9	151.5	124.3	118.2
82.5°	242.4	260.6	269.7	257.6	227.3	197.0	163.6	130.3	97.0	75.8	69.7
85°	93.9	97.0	109.1	130.3	127.3	124.3	100.0	72.7	54.5	39.4	36.4
87.5°	24.2	21.2	24.2	24.2	21.2	18.2	18.2	18.2	18.2	9.1	12.1
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)