

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: P529124

Luminaire Tested: **GALN-SA4B-730-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529124
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4B-730-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17195 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

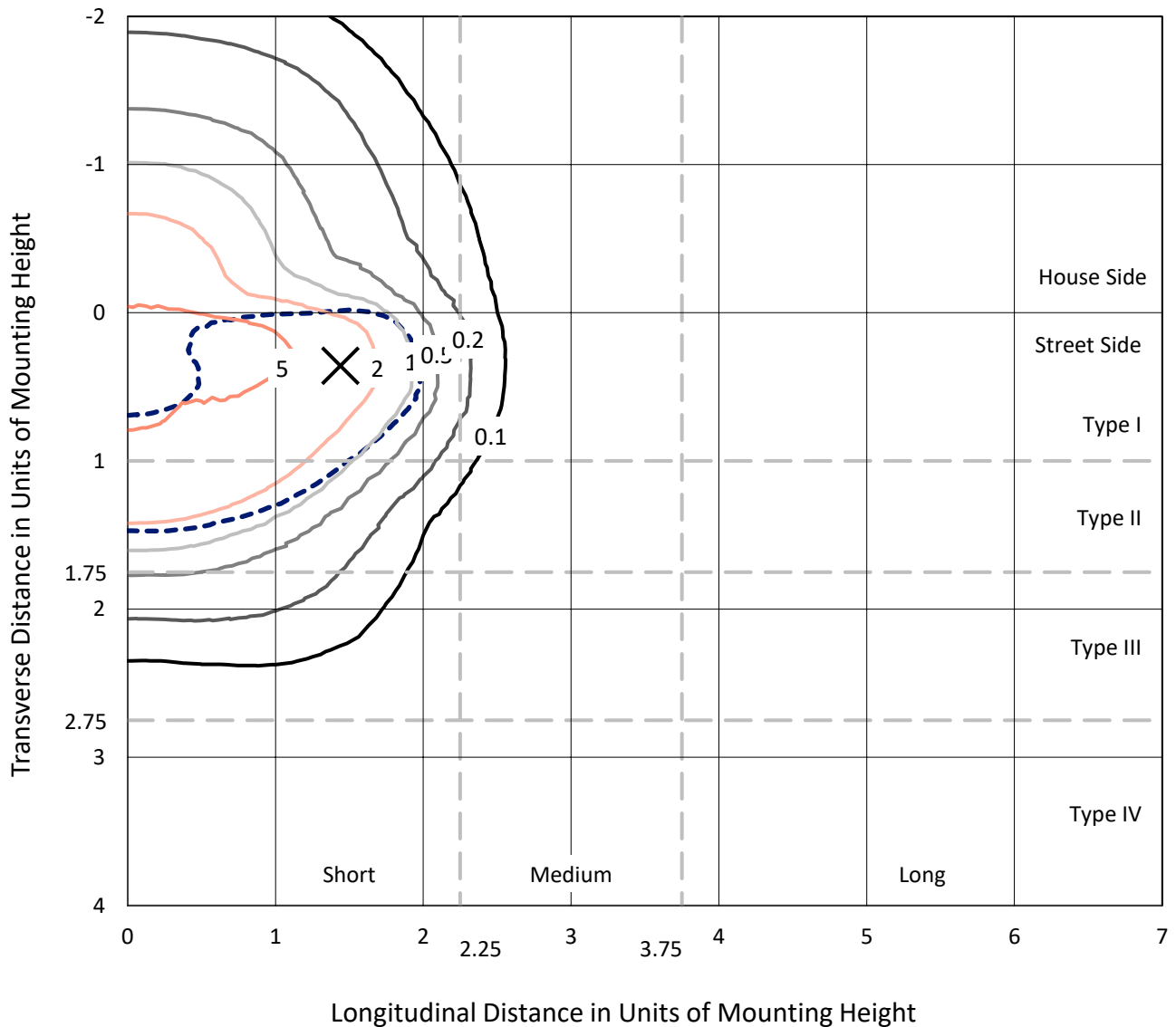
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

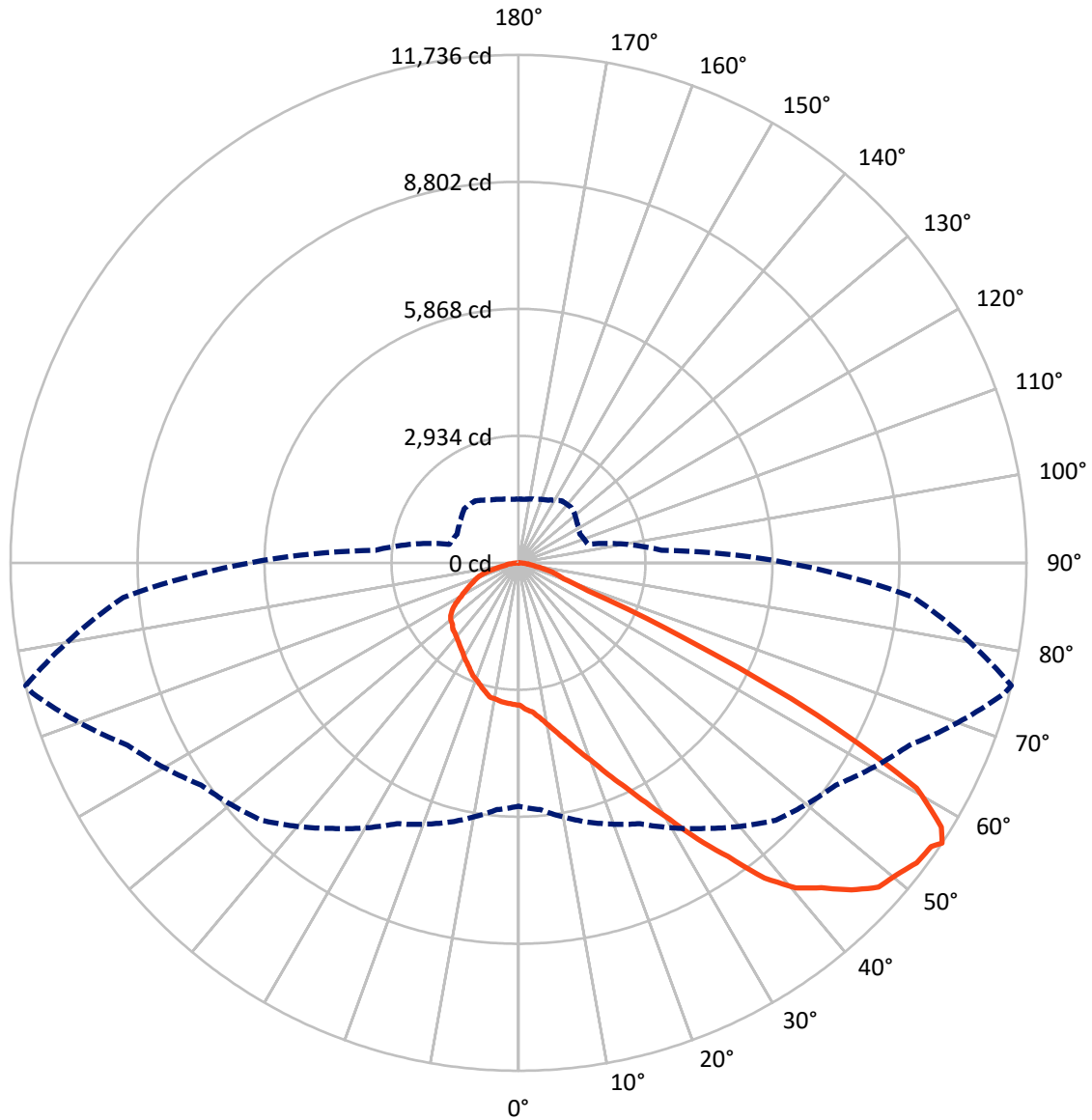
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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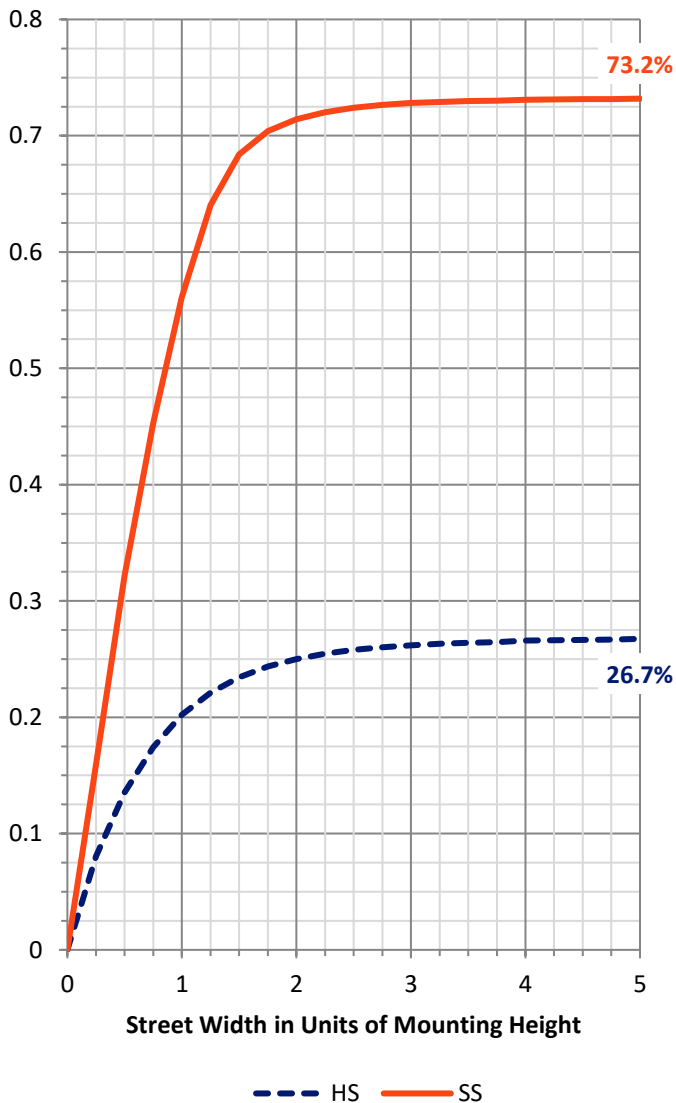
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4623.2	0.0	4623.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	12571.8	0.0	12571.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	17195.0	0.0	17195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.3	1.9
10°-20°	1024.9	6.0
20°-30°	1792.5	10.4
30°-40°	2806.5	16.3
40°-50°	4082.6	23.7
50°-60°	4487.1	26.1
60°-70°	2002.8	11.6
70°-80°	578.5	3.4
80°-90°	93.8	0.5
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°	17195.0	100.0
0°-180°	17195.0	100.0

Coefficient of Utilization



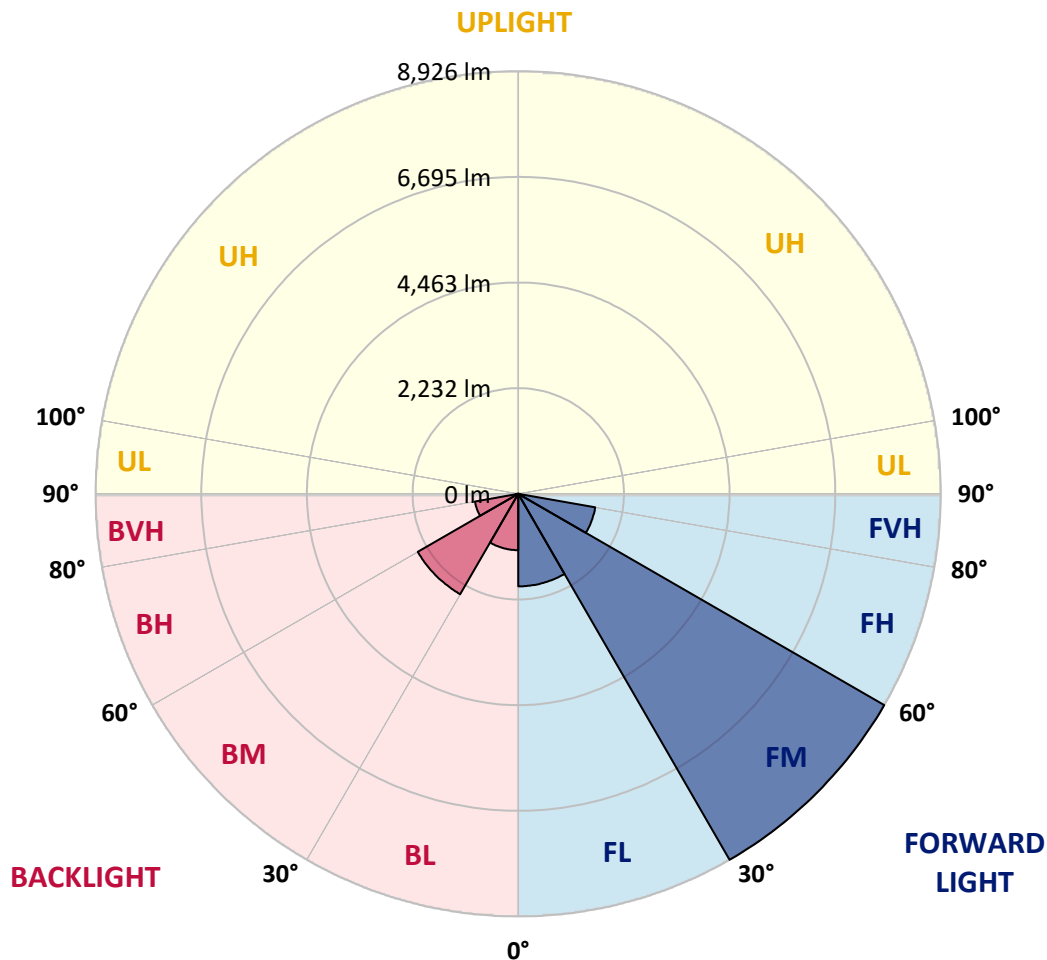
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1954.0	11.4			
FM (30°-60°)	8926.2	51.9			
FH (60°-80°)	1651.1	9.6			G1/1800
FVH (80°-90°)	40.4	0.2			G1/100
BL (0°-30°)	1189.6	6.9	B3/2500		
BM (30°-60°)	2449.9	14.2	B2/2500		
BH (60°-80°)	930.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	53.4	0.3			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°	75°	76°	85°
0°	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0
2.5°	3624.4	3566.4	3562.0	3546.4	3555.3	3515.2	3472.8	3417.1	3359.1	3394.8	3310.1
5°	3878.5	3800.5	3831.7	3778.2	3784.9	3731.4	3644.5	3579.8	3508.5	3466.1	3406.0
7.5°	3967.7	3974.4	3996.6	3987.7	3943.1	3943.1	3885.2	3771.5	3646.7	3622.2	3521.9
10°	4088.0	4090.3	4065.7	4072.4	4134.8	4105.9	4054.6	4005.6	3845.1	3816.1	3637.8
12.5°	4130.4	4090.3	4130.4	4166.0	4239.6	4279.7	4268.6	4232.9	4061.3	4041.2	3780.4
15°	4137.1	4112.6	4146.0	4226.2	4290.9	4460.3	4545.0	4520.5	4293.1	4295.3	3940.9
17.5°	4105.9	4139.3	4152.7	4221.8	4371.1	4529.4	4774.6	4808.0	4620.8	4591.8	4143.8
20°	4148.2	4123.7	4141.5	4203.9	4402.3	4649.7	4970.7	5191.4	4928.4	4908.3	4353.3
22.5°	4310.9	4277.5	4273.0	4313.2	4455.8	4712.2	5178.0	5574.8	5302.9	5314.0	4614.1
25°	4438.0	4455.8	4440.2	4438.0	4527.2	4805.8	5452.2	6031.7	5811.1	5746.4	4921.7
27.5°	4656.4	4698.8	4667.6	4709.9	4689.9	4946.2	5648.4	6537.7	6359.4	6272.5	5200.3
30°	4959.6	4981.9	4952.9	4952.9	4892.7	5142.4	5826.7	7066.0	6992.5	6874.3	5528.0
32.5°	5358.6	5392.0	5334.1	5300.6	5291.7	5434.4	6147.7	7587.6	7712.4	7612.1	5962.6
35°	5886.9	5866.8	5797.7	5766.5	5646.1	5882.4	6624.7	8187.2	8514.9	8336.6	6488.7
37.5°	6352.7	6321.5	6317.1	6143.2	6172.2	6366.1	7030.3	8641.9	9292.8	9241.5	7043.7
40°	6787.4	6816.4	6863.2	6765.1	6720.5	6934.5	7502.9	8989.7	9896.9	9876.8	7471.7
42.5°	7253.3	7226.5	7309.0	7226.5	7159.6	7462.8	8015.6	9230.4	10427.4	10262.4	7919.7
45°	7928.6	7843.9	7872.9	7879.6	7830.6	7942.0	8227.3	9404.3	10799.6	10781.8	8247.4
47.5°	8492.6	8494.8	8445.8	8407.9	8258.5	8370.0	8463.6	9513.5	11227.6	11198.6	8374.5
50°	8702.1	8673.1	8815.8	8898.3	8907.2	8679.8	8648.6	9573.7	11452.7	11325.7	8501.5
52.5°	7948.7	7975.5	8200.6	8691.0	8974.1	8998.6	8864.8	9698.5	11544.1	11517.4	8604.0
55°	6397.3	6526.6	6896.6	7462.8	8133.7	8871.5	9098.9	9827.8	11593.2	11570.9	9058.8
56°	5623.8	5724.1	6205.6	6649.2	7491.8	8410.1	8951.8	9966.0	11631.1	11735.8	9165.8
57.5°	4527.2	4643.1	4988.6	5492.3	6486.5	7531.9	8546.1	9796.6	11483.9	11524.1	9243.8
60°	2830.9	2842.0	3256.6	3588.7	4288.6	5309.5	6522.1	8523.8	10628.0	10570.0	8303.1
62.5°	1856.8	1859.0	2235.7	2507.7	2826.4	3060.5	3838.4	5652.8	7841.7	7739.2	5911.4
65°	1304.0	1333.0	1625.0	1988.3	2117.6	1995.0	1970.5	2980.2	4380.0	4232.9	3176.4
67.5°	954.0	956.3	1214.8	1604.9	1792.1	1518.0	1232.7	1455.6	1734.2	1729.7	1471.2
70°	630.8	657.6	855.9	1199.2	1413.2	1219.3	1007.5	1041.0	1103.4	1103.4	1094.5
72.5°	367.8	392.3	523.8	760.1	793.5	762.3	798.0	891.6	931.7	929.5	918.4
75°	209.5	220.7	249.7	316.5	394.5	465.9	586.2	675.4	715.5	740.0	711.1
77.5°	122.6	129.3	147.1	180.6	205.1	251.9	318.8	381.2	434.7	428.0	432.4
80°	64.6	64.6	82.5	107.0	142.7	178.3	211.8	247.4	276.4	283.1	289.8
82.5°	37.9	40.1	53.5	78.0	102.5	127.1	162.7	187.2	214.0	216.2	220.7
85°	20.1	22.3	33.4	51.3	69.1	78.0	80.2	75.8	82.5	78.0	89.2
87.5°	6.7	6.7	11.1	8.9	8.9	11.1	13.4	13.4	17.8	17.8	17.8
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°	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0	3290.0
2.5°	3307.9	3307.9	3270.0	3198.7	3187.5	3158.5	3131.8	3129.6	3109.5	3091.7	3082.7
5°	3370.3	3301.2	3245.5	3180.8	3105.0	3069.4	3029.2	2984.7	2966.8	2984.7	2982.4
7.5°	3441.6	3383.7	3216.5	3096.1	3009.2	2973.5	2928.9	2882.1	2886.6	2886.6	2855.4
10°	3510.7	3432.7	3165.2	3011.4	2884.4	2857.6	2833.1	2850.9	2873.2	2877.7	2857.6
12.5°	3626.6	3450.5	3140.7	2926.7	2846.5	2788.5	2804.1	2853.2	2900.0	2886.6	2902.2
15°	3713.6	3466.1	3029.2	2839.8	2739.5	2766.2	2821.9	2855.4	2933.4	2924.5	2940.1
17.5°	3798.3	3475.1	2920.0	2723.9	2681.5	2755.1	2797.4	2893.3	2917.8	2971.3	2991.4
20°	3972.1	3492.9	2808.6	2652.5	2639.2	2723.9	2797.4	2842.0	2895.5	2942.3	2942.3
22.5°	4061.3	3484.0	2735.0	2558.9	2601.3	2654.8	2721.6	2797.4	2797.4	2842.0	2844.2
25°	4172.7	3448.3	2619.1	2514.3	2545.5	2596.8	2672.6	2645.9	2674.8	2674.8	2710.5
27.5°	4299.8	3372.5	2518.8	2434.1	2496.5	2552.2	2563.4	2545.5	2512.1	2507.7	2494.3
30°	4402.3	3278.9	2445.2	2407.3	2458.6	2489.8	2454.2	2416.3	2358.3	2353.9	2322.6
32.5°	4542.8	3163.0	2353.9	2340.5	2398.4	2400.7	2389.5	2331.6	2246.9	2211.2	2175.5
35°	4779.0	3096.1	2284.8	2304.8	2322.6	2316.0	2295.9	2233.5	2148.8	2133.2	2119.8
37.5°	4952.9	3047.1	2213.4	2237.9	2253.5	2262.5	2202.3	2133.2	2135.4	2104.2	2095.3
40°	5149.1	3015.9	2155.5	2166.6	2168.8	2197.8	2124.3	2090.8	2106.4	2086.4	2099.7
42.5°	5400.9	3024.8	2095.3	2086.4	2128.7	2117.6	2081.9	2037.3	2046.2	1986.1	1995.0
45°	5534.7	3085.0	2059.6	2019.5	2066.3	2064.1	2017.3	1974.9	1921.4	1805.5	1810.0
47.5°	5623.8	3100.6	1974.9	1948.2	1997.2	2026.2	1972.7	1874.6	1798.8	1716.4	1696.3
50°	5715.2	3129.6	1934.8	1879.1	1899.1	1968.2	1901.4	1807.7	1734.2	1660.6	1671.8
52.5°	5795.5	3185.3	1856.8	1774.3	1810.0	1885.8	1850.1	1736.4	1656.2	1596.0	1578.2
55°	6152.1	3310.1	1725.3	1618.3	1703.0	1798.8	1778.8	1640.6	1553.6	1522.4	1518.0
56°	6207.8	3314.6	1656.2	1564.8	1642.8	1769.8	1745.3	1598.2	1520.2	1471.2	1473.4
57.5°	6216.8	3261.1	1558.1	1515.7	1582.6	1727.5	1696.3	1564.8	1457.8	1413.2	1399.8
60°	5470.0	2545.5	1435.5	1408.7	1486.8	1598.2	1587.1	1473.4	1353.0	1301.8	1326.3
62.5°	3729.2	1865.7	1339.6	1335.2	1375.3	1484.5	1455.6	1353.0	1252.7	1219.3	1203.7
65°	2171.1	1415.4	1246.0	1228.2	1261.6	1319.6	1339.6	1232.7	1127.9	1105.6	1098.9
67.5°	1281.7	1170.2	1125.7	1096.7	1085.5	1121.2	1136.8	1074.4	969.6	938.4	965.2
70°	1072.2	1041.0	1043.2	994.1	967.4	942.9	929.5	873.8	786.8	746.7	735.6
72.5°	925.0	911.7	902.8	858.2	833.7	777.9	720.0	664.2	599.6	566.2	568.4
75°	706.6	702.1	706.6	684.3	642.0	597.4	543.9	472.6	423.5	381.2	390.1
77.5°	421.3	434.7	441.3	432.4	414.6	374.5	341.0	294.2	247.4	214.0	209.5
80°	289.8	300.9	312.1	300.9	283.1	254.1	218.4	182.8	149.3	131.5	127.1
82.5°	220.7	231.8	238.5	227.4	205.1	173.9	149.3	124.8	98.1	80.2	75.8
85°	80.2	91.4	89.2	107.0	115.9	111.5	95.8	73.6	55.7	40.1	37.9
87.5°	22.3	20.1	22.3	22.3	22.3	20.1	17.8	17.8	17.8	11.1	8.9
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)