

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: P533335

Luminaire Tested: **GALN-SA8D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533335
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-SA8D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 33559 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

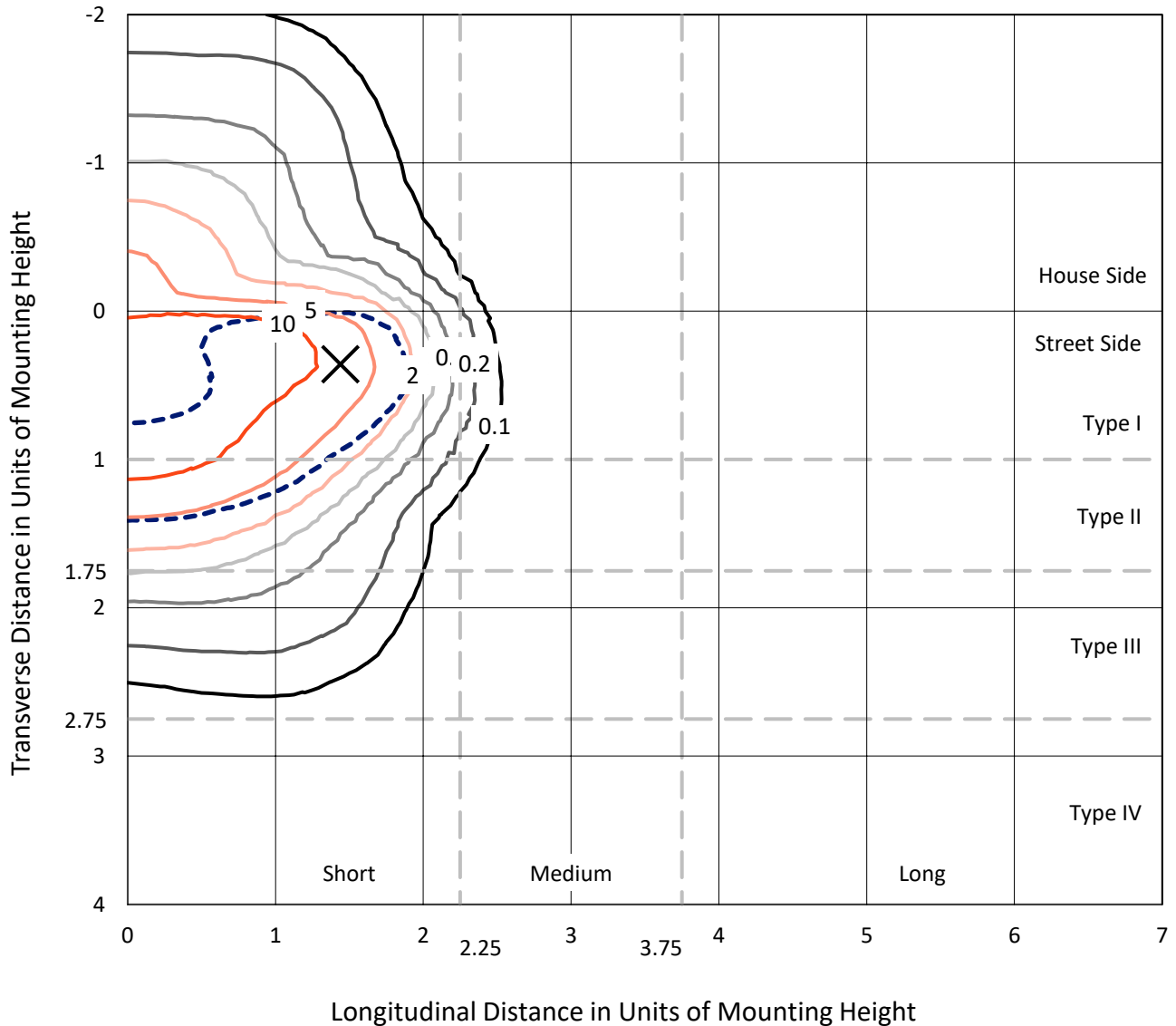
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

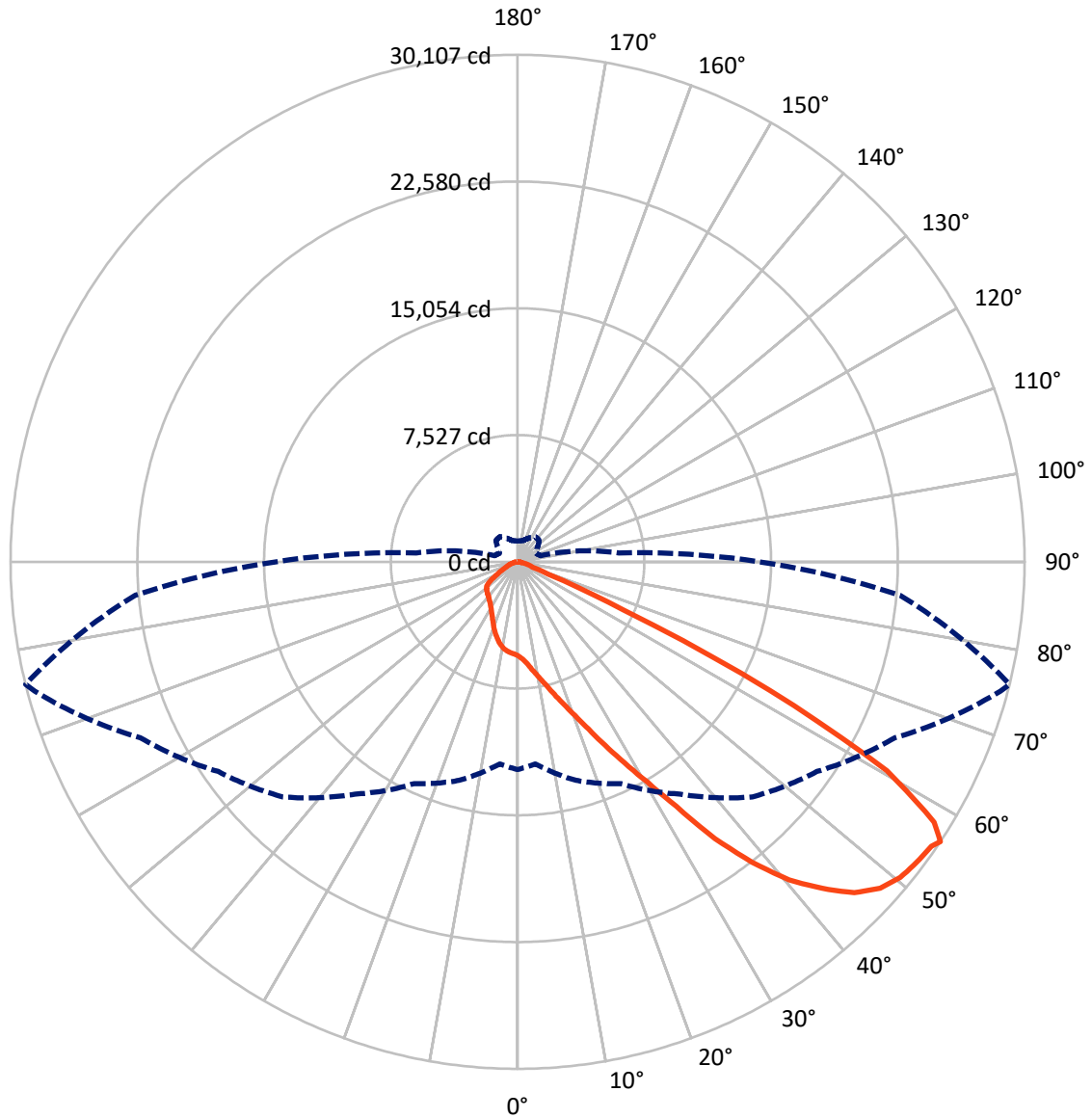
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 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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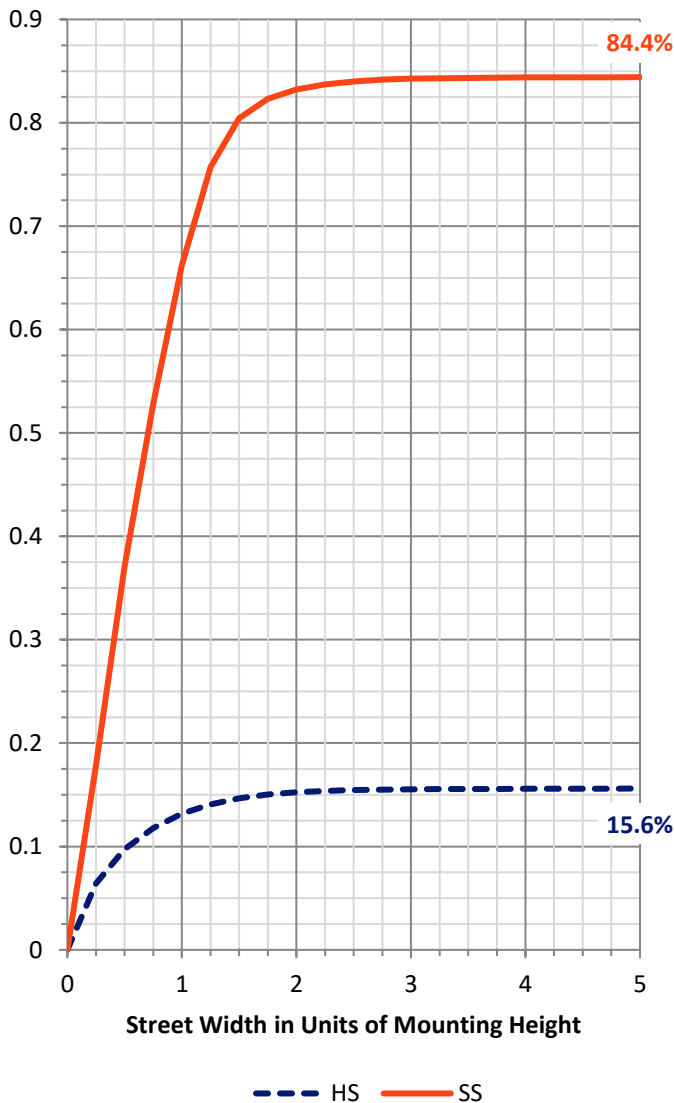
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5271.9	0.0	5271.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	28287.1	0.0	28287.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	33559.0	0.0	33559.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.7	1.7
10°-20°	1807.8	5.4
20°-30°	3278.0	9.8
30°-40°	5653.0	16.8
40°-50°	9183.5	27.4
50°-60°	9679.7	28.8
60°-70°	2957.6	8.8
70°-80°	379.1	1.1
80°-90°	57.6	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°	33559.0	100.0
0°-180°	33559.0	100.0



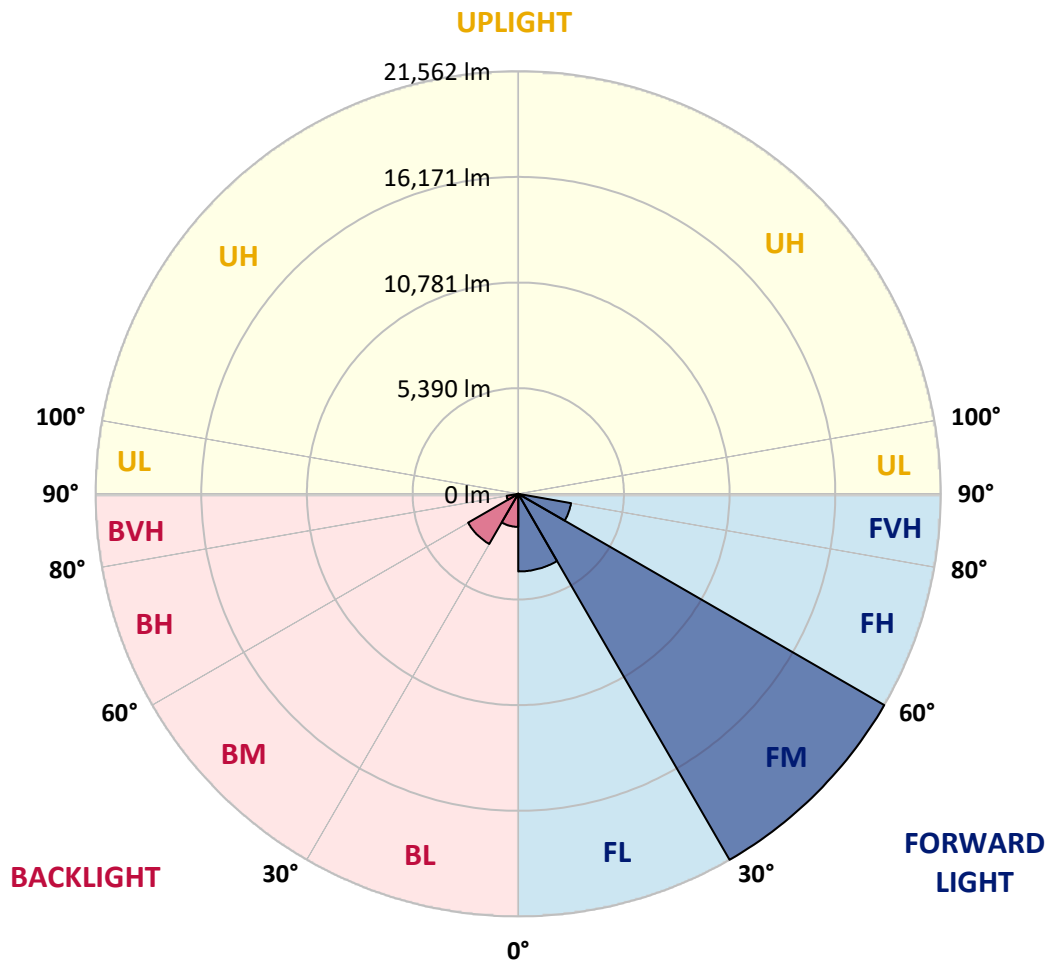
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3961.9	11.8			
FM (30°-60°)	21561.6	64.2			
FH (60°-80°)	2735.3	8.2			G2/5000
FVH (80°-90°)	28.2	0.1			G1/100
BL (0°-30°)	1686.5	5.0	B3/2500		
BM (30°-60°)	2954.6	8.8	B3/5000		
BH (60°-80°)	601.4	1.8	B2/1000		G2/1000
BVH (80°-90°)	29.4	0.1			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°	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9
2.5°	6433.4	6285.0	6291.1	6278.8	6260.2	6192.2	5988.0	5957.1	5821.0	5783.9	5660.2
5°	7206.7	7076.8	7151.0	7039.7	6934.5	6872.6	6538.6	6383.9	6167.4	6087.0	5913.8
7.5°	7689.2	7627.3	7602.6	7608.8	7509.8	7355.1	7206.7	6866.4	6575.7	6513.8	6148.9
10°	7924.2	7887.1	7924.2	7905.7	7949.0	7967.6	7707.7	7503.6	7076.8	6971.6	6402.5
12.5°	7979.9	8054.2	8085.1	8165.5	8270.7	8450.1	8431.5	8153.1	7584.0	7516.0	6792.2
15°	8116.0	8177.9	8146.9	8276.9	8474.8	8777.9	8938.8	8895.4	8283.0	8159.3	7243.8
17.5°	8239.7	8128.4	8233.5	8493.4	8691.3	9155.3	9545.0	9724.4	9043.9	8901.6	7658.3
20°	8406.8	8375.8	8357.3	8487.2	8839.8	9458.4	10231.6	10559.5	9897.6	9749.1	8252.1
22.5°	8914.0	8920.2	8907.8	8716.1	8969.7	9668.7	10831.7	11642.0	10918.3	10794.5	8926.4
25°	9582.1	9501.7	9439.8	9285.2	9254.2	9860.5	11437.9	12965.8	12143.1	12056.5	9656.3
27.5°	10287.3	10287.3	10101.7	9959.4	9761.5	10336.8	11994.6	14252.5	13621.5	13504.0	10293.5
30°	11054.4	11097.7	11072.9	10769.8	10646.1	10856.4	12563.7	15898.0	15316.5	15168.0	11345.1
32.5°	12186.4	12093.6	12198.8	11945.1	11580.2	11765.7	13460.7	17370.3	17518.7	17308.4	12724.6
35°	13683.4	13627.7	13559.7	13145.2	12712.2	12860.7	14728.8	19182.7	20283.9	20178.7	14116.4
37.5°	15025.8	14994.8	14939.2	14654.6	14153.5	14332.9	16170.2	21069.5	22980.9	22634.5	16083.6
40°	16436.2	16603.2	16423.8	16170.2	15712.4	16108.3	17865.1	22189.1	25251.2	24830.6	17586.8
42.5°	18347.6	18217.7	18298.1	17834.2	17586.8	18019.8	19566.3	23308.8	27014.2	26513.1	19182.7
45°	20382.8	20389.0	20172.5	20024.0	19380.7	19850.8	20611.7	23927.4	28418.4	28028.7	20389.0
47.5°	21688.1	21681.9	21917.0	22152.0	21490.1	21026.2	21323.1	24515.1	29142.2	28962.8	20828.2
50°	21483.9	21545.8	21848.9	22727.3	23073.7	22448.9	21991.2	24341.9	29470.0	29451.5	21205.6
52.5°	18687.9	18892.0	19399.3	20667.4	22411.8	23185.1	22690.2	24663.5	29630.9	29661.8	21768.5
55°	14227.8	14339.1	15304.1	16844.4	18774.5	21422.1	22411.8	24917.2	29754.6	29810.3	22448.9
56°	12341.0	12044.1	13436.0	14530.9	16838.3	19733.3	21706.6	24719.2	29680.4	30107.2	22789.2
57.5°	9316.1	9118.1	10244.0	11611.1	13831.9	16887.7	19516.8	23785.1	29179.3	29173.1	22300.5
60°	5666.4	5468.4	6334.5	7138.6	8382.0	10398.6	13188.5	18941.5	24669.7	25189.3	18056.9
62.5°	3371.4	3495.1	4348.7	4837.4	5239.5	5449.9	6823.1	11258.5	16460.9	16832.1	11202.8
65°	2245.5	2288.8	2932.2	3736.3	3915.7	3117.7	2777.5	4559.1	7138.6	6909.7	4620.9
67.5°	1385.7	1484.6	1967.1	2808.4	3111.6	2276.4	1317.6	1701.1	1967.1	1967.1	1336.2
70°	841.3	890.8	1311.4	1911.5	2134.2	1466.1	958.8	958.8	946.5	927.9	798.0
72.5°	402.1	433.0	668.1	983.6	1002.1	773.2	742.3	810.4	791.8	785.6	661.9
75°	173.2	185.6	235.1	309.3	352.6	327.9	451.6	581.5	600.0	581.5	476.3
77.5°	55.7	61.9	86.6	111.3	117.5	142.3	191.8	241.3	278.4	259.8	235.1
80°	6.2	12.4	24.7	55.7	86.6	111.3	142.3	160.8	179.4	179.4	167.0
82.5°	6.2	6.2	24.7	49.5	80.4	105.2	136.1	154.6	179.4	185.6	173.2
85°	0.0	6.2	18.6	43.3	68.0	68.0	61.9	61.9	43.3	43.3	43.3
87.5°	0.0	0.0	6.2	6.2	6.2	12.4	12.4	12.4	12.4	12.4	12.4
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°	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9	5585.9
2.5°	5635.4	5623.1	5456.0	5350.9	5295.2	5183.9	5115.8	5066.3	5029.2	4985.9	4992.1
5°	5709.7	5666.4	5388.0	5196.2	4967.3	4843.6	4738.5	4651.9	4596.2	4583.8	4559.1
7.5°	5920.0	5691.1	5270.5	4924.0	4633.3	4509.6	4416.8	4361.1	4385.9	4330.2	4373.5
10°	6080.8	5740.6	5128.2	4627.1	4336.4	4243.6	4194.1	4237.4	4299.3	4274.5	4243.6
12.5°	6278.8	5790.1	4899.3	4342.6	4070.4	4002.3	4088.9	4169.4	4293.1	4342.6	4280.7
15°	6501.5	5845.8	4608.6	4014.7	3841.5	3897.2	4045.6	4187.9	4311.6	4373.5	4410.6
17.5°	6773.7	5827.2	4324.0	3754.9	3625.0	3785.8	3965.2	4095.1	4280.7	4373.5	4348.7
20°	7027.3	5765.3	4008.5	3495.1	3501.3	3649.7	3798.2	4008.5	4107.5	4231.2	4187.9
22.5°	7268.5	5654.0	3680.7	3315.7	3315.7	3544.6	3618.8	3754.9	3841.5	3903.4	3897.2
25°	7608.8	5443.7	3408.5	3142.5	3216.7	3365.2	3427.0	3470.3	3433.2	3482.7	3488.9
27.5°	7850.0	5227.2	3185.8	2987.8	3123.9	3235.3	3216.7	3192.0	3105.4	3037.3	3080.6
30°	8109.8	4973.5	2994.0	2882.7	2956.9	3055.9	2981.6	2907.4	2771.3	2660.0	2666.2
32.5°	8481.0	4856.0	2827.0	2759.0	2857.9	2870.3	2789.9	2678.5	2542.4	2437.3	2431.1
35°	9173.8	4781.8	2684.7	2678.5	2697.1	2703.3	2622.9	2486.8	2431.1	2344.5	2375.4
37.5°	9866.6	4744.7	2585.7	2561.0	2554.8	2561.0	2468.2	2338.3	2443.5	2437.3	2449.7
40°	10751.2	4911.7	2443.5	2412.5	2418.7	2418.7	2301.2	2264.1	2449.7	2468.2	2474.4
42.5°	11648.2	5122.0	2350.7	2251.7	2276.4	2276.4	2214.6	2171.3	2301.2	2177.5	2158.9
45°	12427.6	5431.3	2251.7	2090.9	2152.7	2183.7	2165.1	2090.9	2010.4	1800.1	1800.1
47.5°	12681.3	5703.5	2134.2	1936.2	1985.7	2121.8	2066.1	1911.5	1769.2	1596.0	1583.6
50°	13126.7	6000.4	2041.4	1756.8	1862.0	2029.0	1973.3	1818.7	1657.8	1534.1	1540.3
52.5°	13584.4	6340.6	1868.2	1546.5	1676.4	1954.8	1954.8	1781.6	1534.1	1447.5	1435.1
55°	14271.1	6328.3	1558.9	1268.1	1497.0	1843.4	1874.4	1596.0	1373.3	1305.2	1305.2
56°	14370.0	6043.7	1404.2	1187.7	1416.6	1812.5	1818.7	1546.5	1311.4	1237.2	1237.2
57.5°	13627.7	5456.0	1231.0	1088.7	1317.6	1756.8	1763.0	1503.2	1261.9	1156.8	1144.4
60°	10485.2	3693.0	1026.9	971.2	1193.9	1583.6	1614.5	1367.1	1107.3	1026.9	1020.7
62.5°	5920.0	2047.6	903.2	878.4	1026.9	1348.5	1441.3	1193.9	940.3	897.0	909.3
65°	2703.3	1125.8	760.9	711.4	828.9	1039.2	1163.0	983.6	773.2	723.8	723.8
67.5°	989.8	767.1	649.5	562.9	581.5	674.3	754.7	637.2	513.4	439.2	457.8
70°	705.2	643.3	569.1	488.7	451.6	439.2	433.0	358.8	253.6	198.0	210.3
72.5°	569.1	532.0	476.3	414.5	352.6	296.9	253.6	185.6	117.5	80.4	74.2
75°	408.3	389.7	346.4	296.9	247.4	210.3	173.2	117.5	61.9	30.9	30.9
77.5°	210.3	210.3	204.1	185.6	154.6	123.7	99.0	68.0	37.1	12.4	12.4
80°	160.8	173.2	179.4	160.8	142.3	111.3	80.4	49.5	24.7	6.2	6.2
82.5°	154.6	179.4	191.8	167.0	142.3	105.2	80.4	49.5	24.7	6.2	6.2
85°	37.1	37.1	55.7	61.9	80.4	86.6	68.0	43.3	18.6	6.2	6.2
87.5°	12.4	12.4	12.4	12.4	12.4	12.4	6.2	6.2	6.2	6.2	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)