

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: P530059

Luminaire Tested: **GALN-SA5B-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530059
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-SA5B-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA 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: 15309 lumens
Efficiency: N/A
Efficacy: 75.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

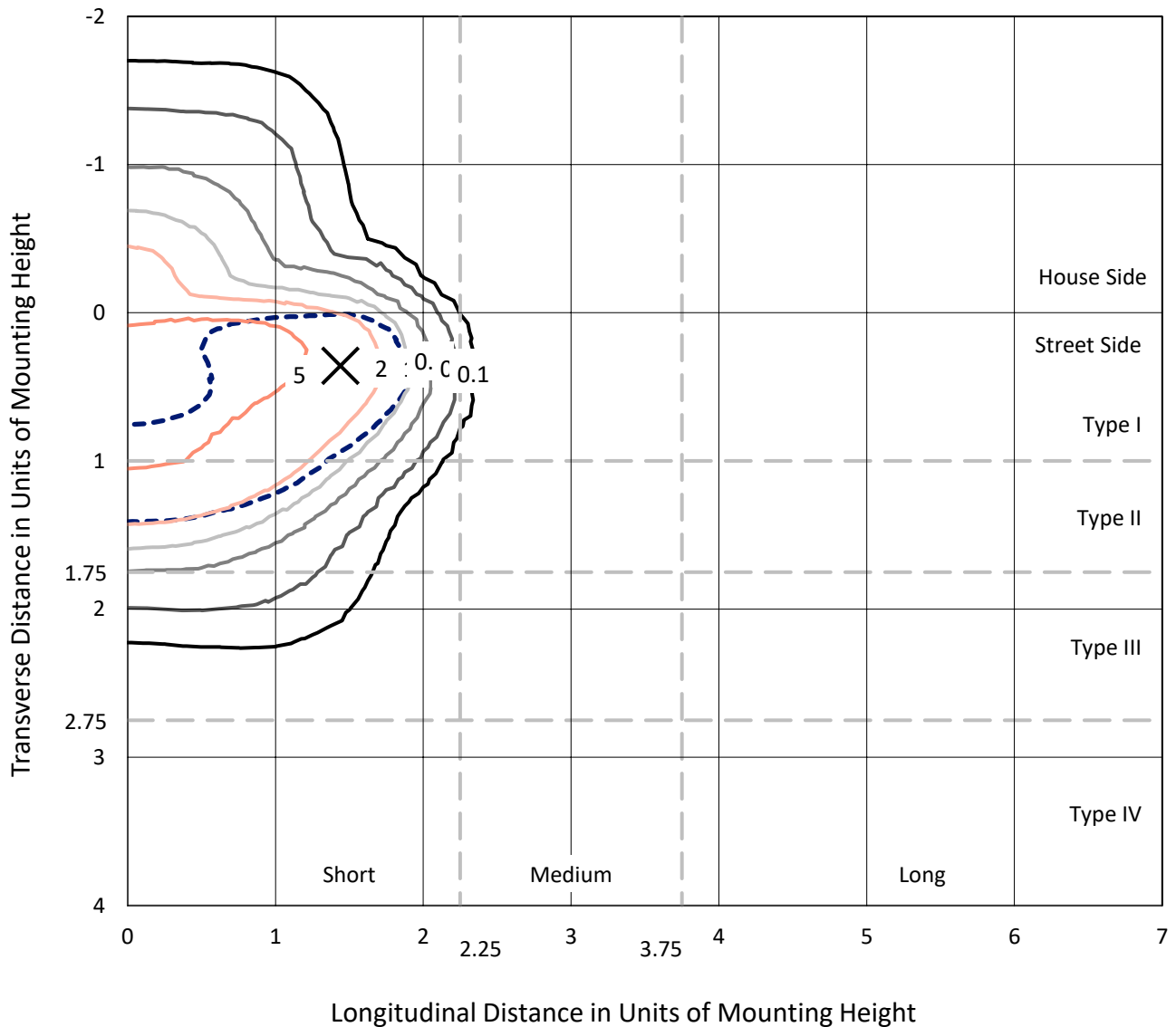
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

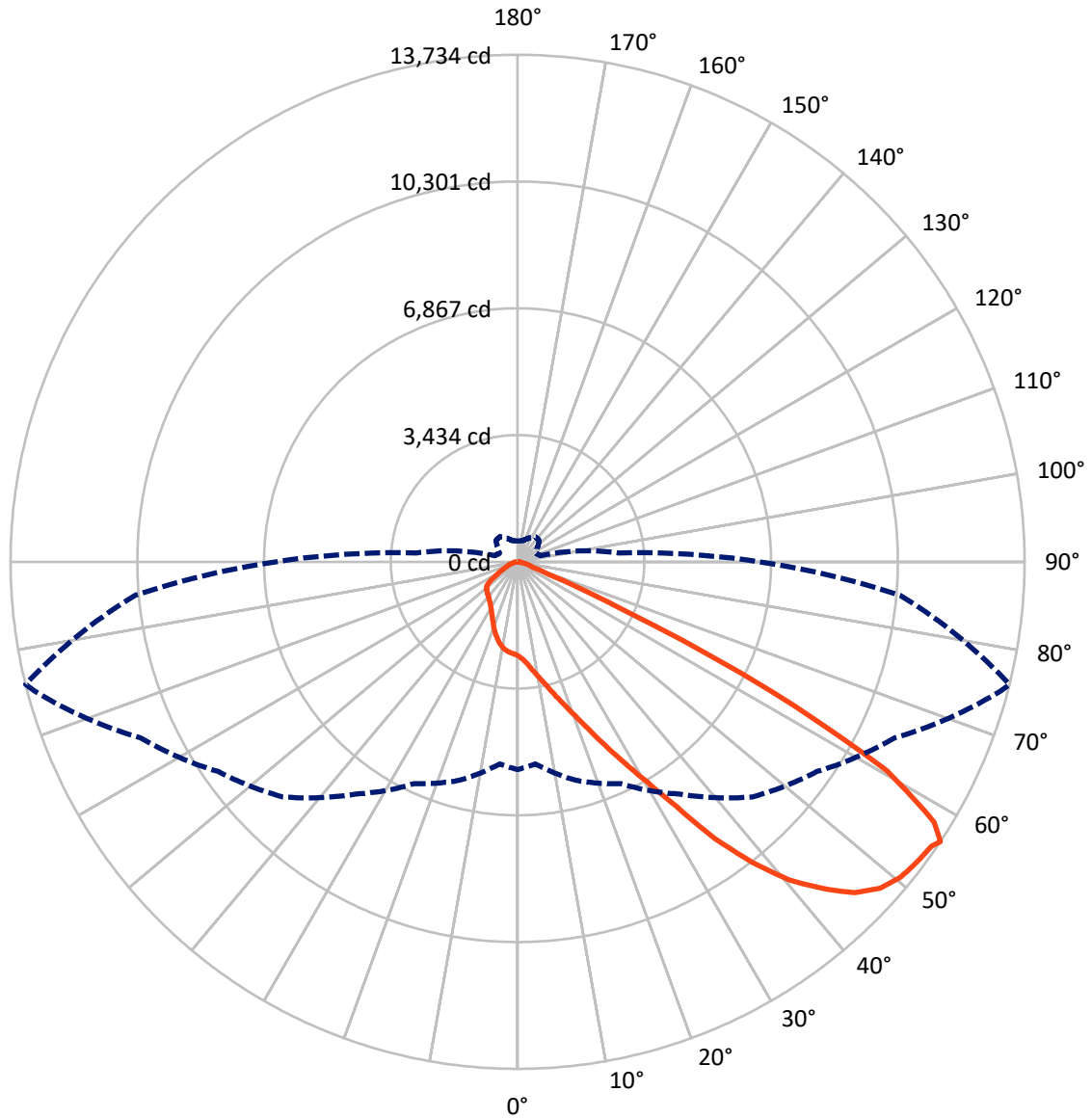
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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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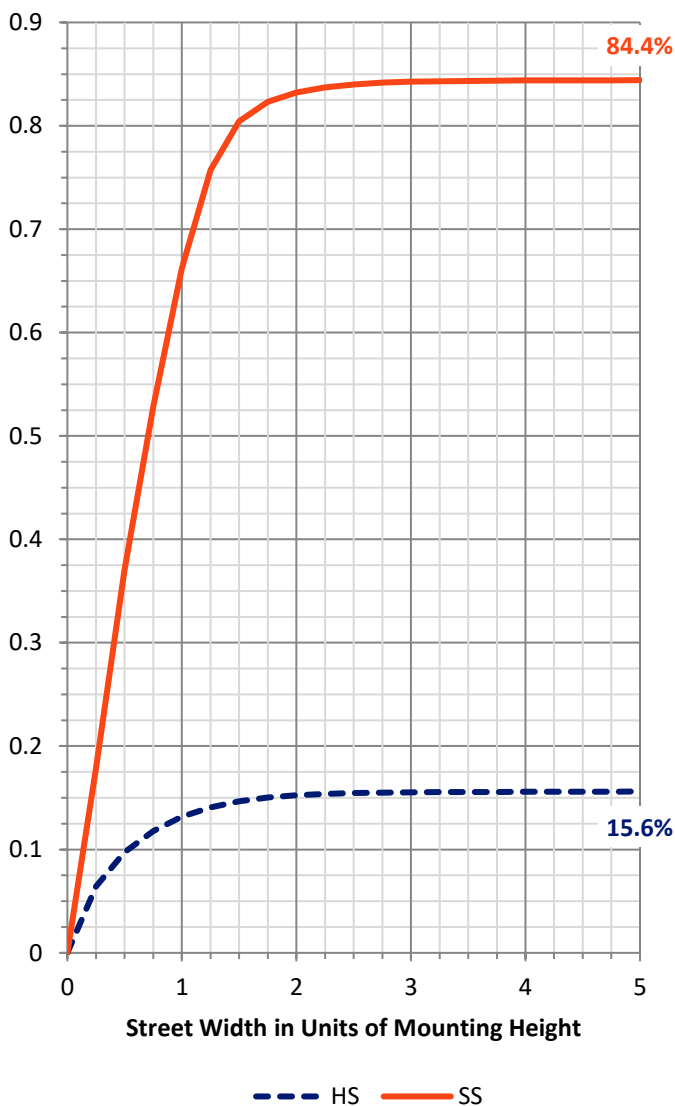
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2405.0	0.0	2405.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	12904.0	0.0	12904.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	15309.0	0.0	15309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	1.7
10°-20°	824.7	5.4
20°-30°	1495.3	9.8
30°-40°	2578.8	16.8
40°-50°	4189.3	27.4
50°-60°	4415.7	28.8
60°-70°	1349.2	8.8
70°-80°	173.0	1.1
80°-90°	26.3	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°	15309.0	100.0
0°-180°	15309.0	100.0

Coefficient of Utilization



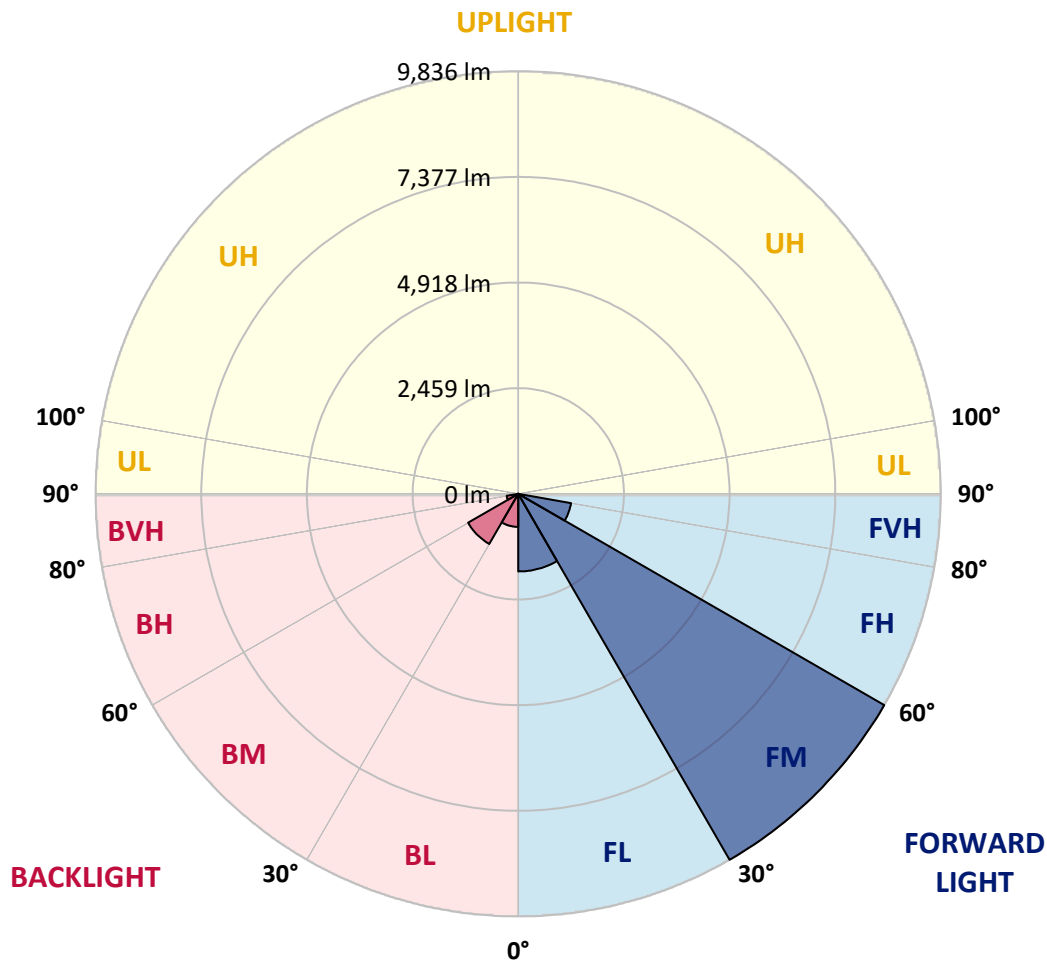
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1807.4	11.8			
FM (30°-60°)	9836.0	64.2			
FH (60°-80°)	1247.8	8.2			G1/1800
FVH (80°-90°)	12.9	0.1			G1/100
BL (0°-30°)	769.3	5.0	B2/1000		
BM (30°-60°)	1347.8	8.8	B2/2500		
BH (60°-80°)	274.4	1.8	B1/500		G1/500
BVH (80°-90°)	13.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2934.8	2867.1	2869.9	2864.3	2855.8	2824.8	2731.6	2717.5	2655.4	2638.5	2582.1
5°	3287.6	3228.3	3262.2	3211.4	3163.4	3135.2	2982.8	2912.2	2813.5	2776.8	2697.8
7.5°	3507.7	3479.4	3468.2	3471.0	3425.8	3355.3	3287.6	3132.3	2999.7	2971.5	2805.0
10°	3614.9	3598.0	3614.9	3606.4	3626.2	3634.7	3516.1	3423.0	3228.3	3180.3	2920.7
12.5°	3640.3	3674.2	3688.3	3725.0	3772.9	3854.8	3846.3	3719.3	3459.7	3428.6	3098.5
15°	3702.4	3730.6	3716.5	3775.7	3866.0	4004.3	4077.7	4057.9	3778.6	3722.1	3304.5
17.5°	3758.8	3708.0	3756.0	3874.5	3964.8	4176.5	4354.2	4436.1	4125.7	4060.8	3493.6
20°	3835.0	3820.9	3812.4	3871.7	4032.5	4314.7	4667.5	4817.0	4515.1	4447.4	3764.5
22.5°	4066.4	4069.2	4063.6	3976.1	4091.8	4410.7	4941.2	5310.9	4980.7	4924.3	4072.1
25°	4371.2	4334.5	4306.3	4235.7	4221.6	4498.2	5217.8	5914.8	5539.5	5499.9	4405.0
27.5°	4692.9	4692.9	4608.2	4543.3	4453.0	4715.5	5471.7	6501.7	6213.9	6160.3	4695.7
30°	5042.8	5062.5	5051.3	4913.0	4856.5	4952.5	5731.3	7252.4	6987.1	6919.4	5175.4
32.5°	5559.2	5516.9	5564.9	5449.2	5282.7	5367.3	6140.5	7924.0	7991.7	7895.8	5804.7
35°	6242.1	6216.7	6185.7	5996.6	5799.1	5866.8	6719.0	8750.8	9253.1	9205.1	6439.7
37.5°	6854.5	6840.4	6815.0	6685.2	6456.6	6538.4	7376.5	9611.5	10483.5	10325.5	7337.0
40°	7497.9	7574.1	7492.2	7376.5	7167.7	7348.3	8149.7	10122.3	11519.1	11327.2	8022.8
42.5°	8369.9	8310.6	8347.3	8135.6	8022.8	8220.3	8925.8	10633.0	12323.4	12094.8	8750.8
45°	9298.3	9301.1	9202.3	9134.6	8841.1	9055.6	9402.7	10915.2	12964.0	12786.2	9301.1
47.5°	9893.7	9890.9	9998.1	10105.3	9803.4	9591.8	9727.2	11183.3	13294.1	13212.3	9501.5
50°	9800.6	9828.8	9967.1	10367.8	10525.8	10240.8	10032.0	11104.3	13443.7	13435.2	9673.6
52.5°	8525.1	8618.2	8849.6	9428.1	10223.9	10576.6	10350.9	11251.0	13517.1	13531.2	9930.4
55°	6490.4	6541.2	6981.5	7684.1	8564.6	9772.4	10223.9	11366.7	13573.5	13598.9	10240.8
56°	5629.8	5494.3	6129.2	6628.7	7681.3	9002.0	9902.2	11276.4	13539.6	13734.4	10396.0
57.5°	4249.8	4159.5	4673.1	5296.8	6309.8	7703.9	8903.2	10850.3	13311.1	13308.2	10173.1
60°	2584.9	2494.6	2889.7	3256.5	3823.7	4743.7	6016.4	8640.8	11253.9	11490.9	8237.2
62.5°	1538.0	1594.4	1983.8	2206.8	2390.2	2486.1	3112.6	5135.9	7509.2	7678.5	5110.5
65°	1024.4	1044.1	1337.6	1704.4	1786.3	1422.3	1267.0	2079.8	3256.5	3152.1	2108.0
67.5°	632.1	677.3	897.4	1281.2	1419.4	1038.5	601.1	776.0	897.4	897.4	609.5
70°	383.8	406.4	598.2	872.0	973.6	668.8	437.4	437.4	431.8	423.3	364.0
72.5°	183.4	197.5	304.8	448.7	457.2	352.7	338.6	369.7	361.2	358.4	301.9
75°	79.0	84.7	107.2	141.1	160.9	149.6	206.0	265.3	273.7	265.3	217.3
77.5°	25.4	28.2	39.5	50.8	53.6	64.9	87.5	110.1	127.0	118.5	107.2
80°	2.8	5.6	11.3	25.4	39.5	50.8	64.9	73.4	81.8	81.8	76.2
82.5°	2.8	2.8	11.3	22.6	36.7	48.0	62.1	70.5	81.8	84.7	79.0
85°	0.0	2.8	8.5	19.8	31.0	31.0	28.2	28.2	19.8	19.8	19.8
87.5°	0.0	0.0	2.8	2.8	2.8	5.6	5.6	5.6	5.6	5.6	5.6
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°	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2	2548.2
2.5°	2570.8	2565.1	2488.9	2441.0	2415.6	2364.8	2333.7	2311.2	2294.2	2274.5	2277.3
5°	2604.6	2584.9	2457.9	2370.4	2266.0	2209.6	2161.6	2122.1	2096.7	2091.1	2079.8
7.5°	2700.6	2596.2	2404.3	2246.3	2113.6	2057.2	2014.9	1989.5	2000.8	1975.4	1995.1
10°	2774.0	2618.8	2339.4	2110.8	1978.2	1935.8	1913.3	1933.0	1961.2	1950.0	1935.8
12.5°	2864.3	2641.3	2235.0	1981.0	1856.8	1825.8	1865.3	1902.0	1958.4	1981.0	1952.8
15°	2965.9	2666.7	2102.3	1831.4	1752.4	1777.8	1845.5	1910.4	1966.9	1995.1	2012.0
17.5°	3090.0	2658.3	1972.5	1712.9	1653.7	1727.0	1808.9	1868.1	1952.8	1995.1	1983.8
20°	3205.7	2630.0	1828.6	1594.4	1597.2	1664.9	1732.7	1828.6	1873.8	1930.2	1910.4
22.5°	3315.8	2579.2	1679.1	1512.6	1512.6	1617.0	1650.8	1712.9	1752.4	1780.6	1777.8
25°	3471.0	2483.3	1554.9	1433.5	1467.4	1535.1	1563.4	1583.1	1566.2	1588.7	1591.6
27.5°	3581.0	2384.5	1453.3	1363.0	1425.1	1475.9	1467.4	1456.1	1416.6	1385.6	1405.3
30°	3699.6	2268.8	1365.8	1315.0	1348.9	1394.0	1360.2	1326.3	1264.2	1213.4	1216.3
32.5°	3868.9	2215.2	1289.6	1258.6	1303.7	1309.4	1272.7	1221.9	1159.8	1111.8	1109.0
35°	4184.9	2181.4	1224.7	1221.9	1230.4	1233.2	1196.5	1134.4	1109.0	1069.5	1083.6
37.5°	4501.0	2164.4	1179.6	1168.3	1165.5	1168.3	1126.0	1066.7	1114.7	1111.8	1117.5
40°	4904.5	2240.6	1114.7	1100.6	1103.4	1103.4	1049.8	1032.8	1117.5	1126.0	1128.8
42.5°	5313.7	2336.6	1072.3	1027.2	1038.5	1038.5	1010.3	990.5	1049.8	993.3	984.9
45°	5669.3	2477.7	1027.2	953.8	982.0	996.1	987.7	953.8	917.1	821.2	821.2
47.5°	5785.0	2601.8	973.6	883.3	905.8	967.9	942.5	872.0	807.1	728.1	722.4
50°	5988.1	2737.3	931.2	801.4	849.4	925.6	900.2	829.6	756.3	699.8	702.7
52.5°	6197.0	2892.5	852.2	705.5	764.7	891.7	891.7	812.7	699.8	660.3	654.7
55°	6510.2	2886.8	711.1	578.5	682.9	840.9	855.0	728.1	626.5	595.4	595.4
56°	6555.4	2757.0	640.6	541.8	646.2	826.8	829.6	705.5	598.2	564.4	564.4
57.5°	6216.7	2488.9	561.6	496.7	601.1	801.4	804.3	685.7	575.7	527.7	522.1
60°	4783.2	1684.7	468.4	443.0	544.6	722.4	736.5	623.6	505.1	468.4	465.6
62.5°	2700.6	934.1	412.0	400.7	468.4	615.2	657.5	544.6	428.9	409.2	414.8
65°	1233.2	513.6	347.1	324.5	378.1	474.1	530.5	448.7	352.7	330.2	330.2
67.5°	451.5	349.9	296.3	256.8	265.3	307.6	344.3	290.7	234.2	200.4	208.8
70°	321.7	293.5	259.6	222.9	206.0	200.4	197.5	163.7	115.7	90.3	95.9
72.5°	259.6	242.7	217.3	189.1	160.9	135.5	115.7	84.7	53.6	36.7	33.9
75°	186.2	177.8	158.0	135.5	112.9	95.9	79.0	53.6	28.2	14.1	14.1
77.5°	95.9	95.9	93.1	84.7	70.5	56.4	45.2	31.0	16.9	5.6	5.6
80°	73.4	79.0	81.8	73.4	64.9	50.8	36.7	22.6	11.3	2.8	2.8
82.5°	70.5	81.8	87.5	76.2	64.9	48.0	36.7	22.6	11.3	2.8	2.8
85°	16.9	16.9	25.4	28.2	36.7	39.5	31.0	19.8	8.5	2.8	2.8
87.5°	5.6	5.6	5.6	5.6	5.6	5.6	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)