

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: P529828

Luminaire Tested: **GALN-SA5A-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529828
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-SA5A-730-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 18328 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

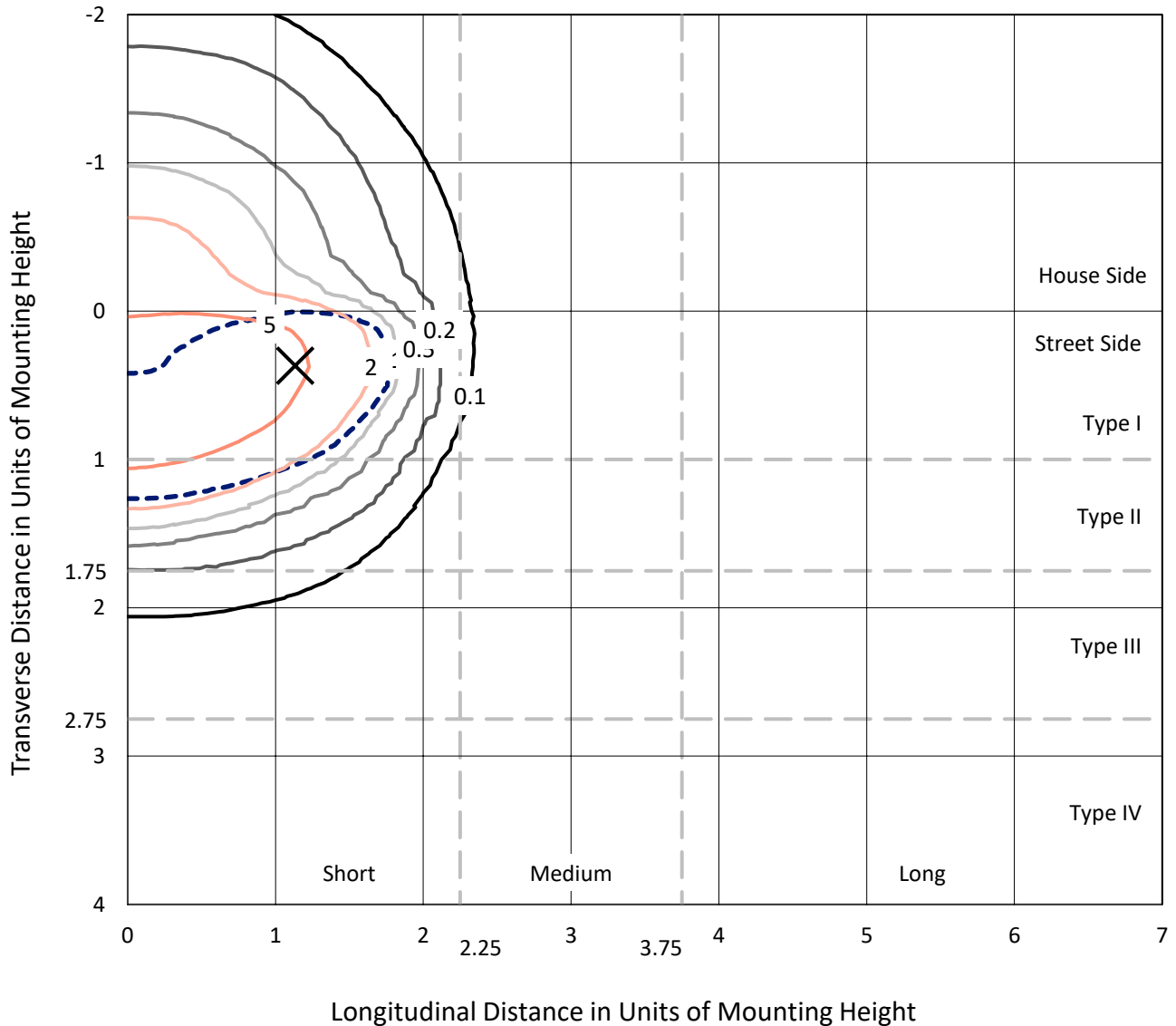
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

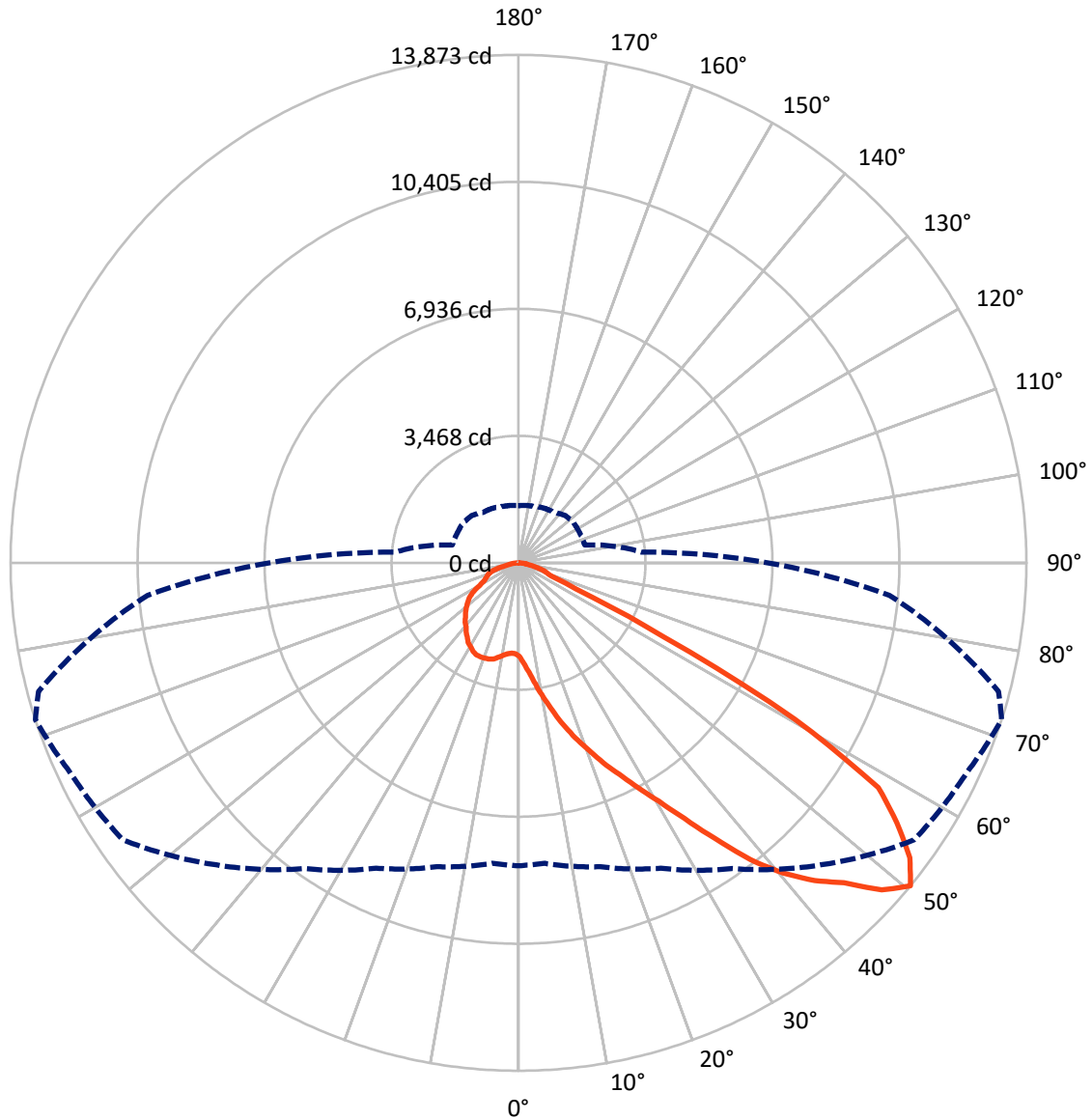
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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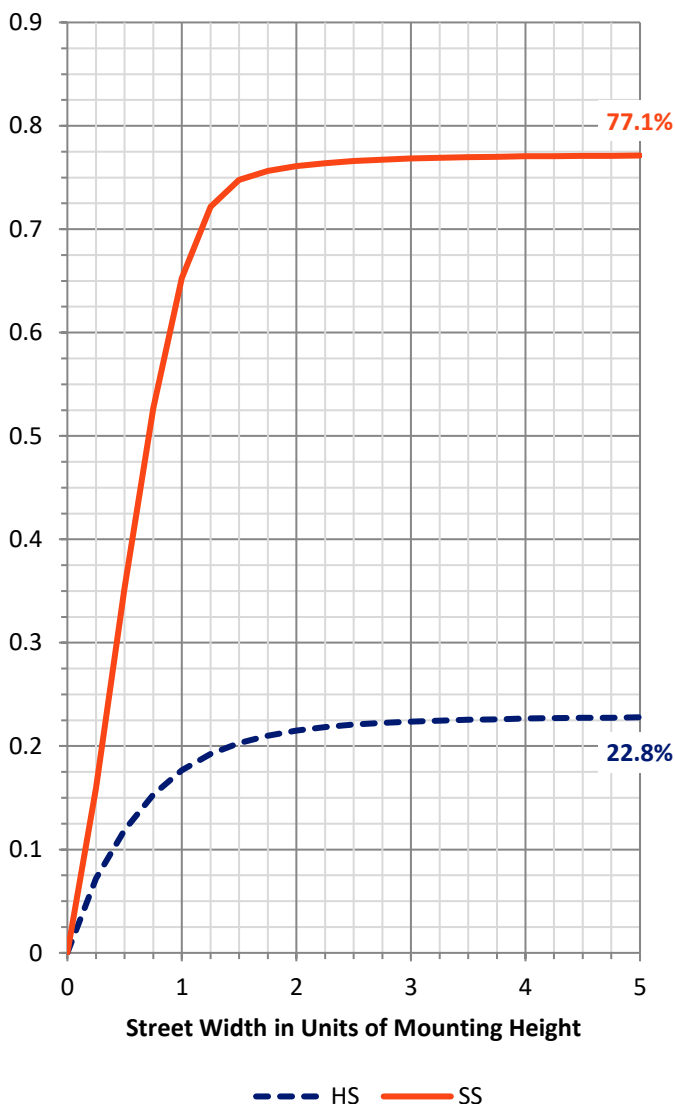
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4199.0	0.0	4199.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	14129.0	0.0	14129.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	18328.0	0.0	18328.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.1	1.6
10°-20°	1121.9	6.1
20°-30°	2175.3	11.9
30°-40°	3603.8	19.7
40°-50°	5042.4	27.5
50°-60°	4253.9	23.2
60°-70°	1296.6	7.1
70°-80°	454.9	2.5
80°-90°	79.1	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°	18328.0	100.0
0°-180°	18328.0	100.0

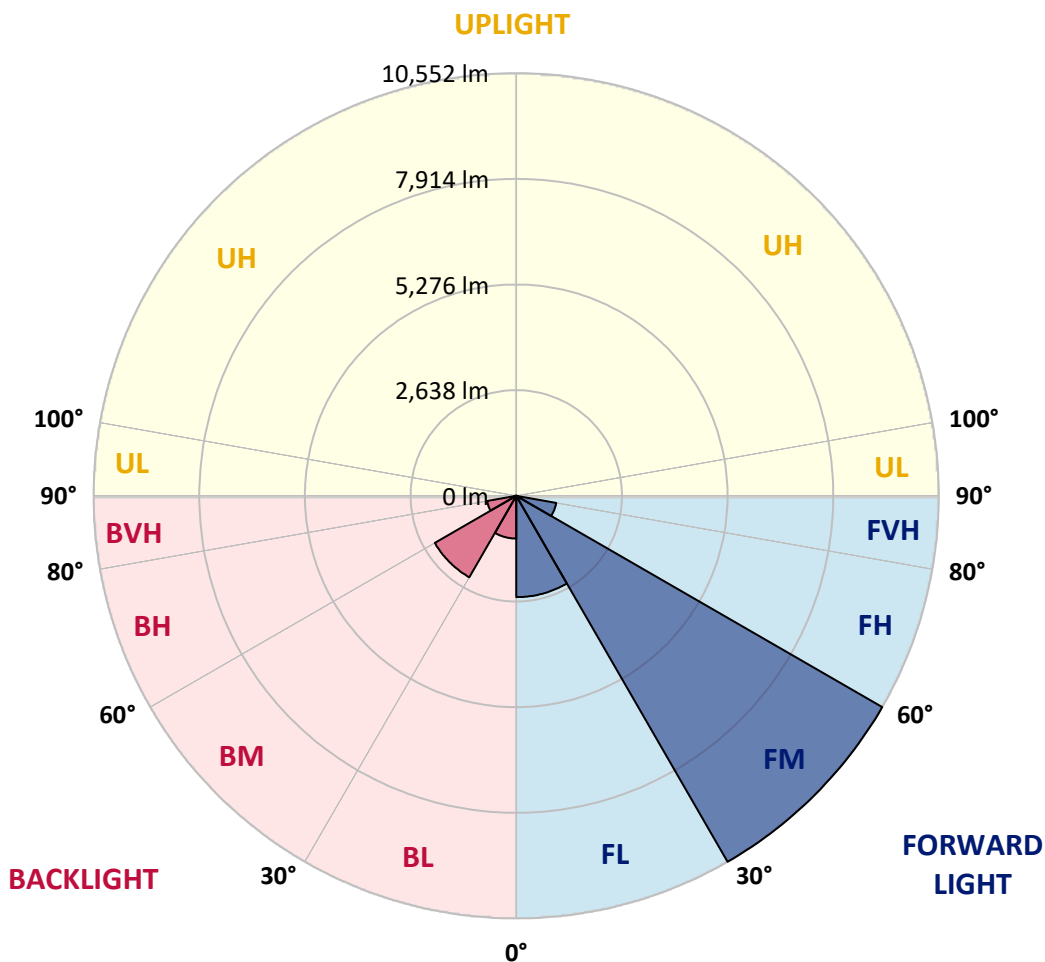


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2529.9	13.8			
FM (30°-60°)	10551.9	57.6			
FH (60°-80°)	1011.7	5.5			G1/1800
FVH (80°-90°)	35.4	0.2			G1/100
BL (0°-30°)	1067.4	5.8	B3/2500		
BM (30°-60°)	2348.2	12.8	B2/2500		
BH (60°-80°)	739.8	4.0	B2/1000		G2/1000
BVH (80°-90°)	43.7	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°	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4
2.5°	3281.7	3261.3	3200.0	3179.6	3107.1	2975.5	2930.2	2796.3	2739.7	2687.5	2626.3
5°	4150.3	4055.0	4048.2	3932.6	3764.8	3667.2	3376.9	3181.9	3002.7	2912.0	2744.2
7.5°	4703.7	4705.9	4705.9	4610.7	4476.9	4229.7	3968.9	3617.3	3347.5	3213.6	2927.9
10°	5229.8	5184.5	5159.5	5150.5	5059.7	4819.3	4540.4	4104.9	3735.3	3578.8	3066.2
12.5°	5601.8	5563.2	5619.9	5590.4	5524.7	5368.2	5105.1	4608.4	4145.8	3934.8	3288.5
15°	5778.7	5805.9	5851.2	5932.9	5903.4	5844.4	5554.1	5125.5	4588.0	4349.9	3485.8
17.5°	6050.8	5976.0	6030.4	6132.5	6214.1	6186.9	6021.3	5499.7	5025.7	4733.2	3751.1
20°	6241.3	6198.2	6225.4	6343.4	6404.6	6558.8	6472.7	5989.6	5445.3	5136.8	4064.1
22.5°	6785.6	6722.1	6633.7	6651.8	6674.5	6783.4	6803.8	6527.1	5932.9	5606.3	4361.2
25°	7456.9	7398.0	7293.6	7187.0	7121.3	7100.9	7171.2	6948.9	6400.1	6062.2	4681.0
27.5°	8196.3	8096.5	8030.7	7810.7	7633.8	7606.6	7572.6	7452.4	6953.5	6588.3	5041.6
30°	8915.2	8835.8	8747.4	8395.9	8212.2	8182.7	8014.8	8048.9	7554.5	7148.5	5449.8
32.5°	9459.5	9466.3	9264.5	8999.1	8826.8	8670.3	8609.0	8706.6	8325.5	7999.0	5905.7
35°	9899.5	9919.9	9727.1	9486.7	9300.8	9409.6	9382.4	9427.8	9246.3	8847.2	6436.4
37.5°	10328.1	10226.1	10019.7	9904.0	9806.5	9985.7	10217.0	10255.5	10289.6	9820.1	7053.2
40°	10398.4	10407.5	10287.3	10368.9	10246.5	10516.4	11053.9	11004.0	11142.3	10731.8	7722.3
42.5°	10298.6	10319.1	10366.7	10482.3	10777.2	11101.5	11899.8	11695.7	11863.5	11498.4	8373.2
45°	10135.3	10051.4	10110.4	10550.4	11060.7	11781.9	12673.2	12514.4	12460.0	12153.8	9148.8
47.5°	9355.2	9441.4	9625.1	10167.1	10933.7	11899.8	13222.0	13185.7	13349.0	13133.5	9854.1
50°	8273.4	8239.4	8593.2	9203.2	10192.0	11668.5	13192.5	13521.4	13872.9	13573.5	10169.4
52.5°	6196.0	6377.4	6681.3	7438.8	8849.4	10407.5	12548.4	13097.3	13383.0	13319.5	9915.4
55°	3916.7	3971.1	4154.8	5055.2	6325.2	8352.8	10756.8	12029.1	12539.3	12777.5	9681.8
57.5°	1902.8	1800.7	2025.3	2748.7	3653.6	5617.6	8296.1	10477.8	11586.8	12017.7	9173.8
60°	993.4	1031.9	1120.4	1378.9	1889.2	2916.5	5170.9	6982.9	8677.1	9339.3	6953.5
62.5°	823.3	836.9	895.8	1025.1	1256.4	1678.3	2639.9	3404.2	4424.7	5021.2	3955.3
65°	698.5	705.3	768.8	855.0	1002.4	1181.6	1358.5	1422.0	1721.4	1766.7	1406.1
67.5°	582.9	589.7	657.7	739.3	834.6	882.2	927.6	923.0	957.1	943.5	941.2
70°	449.0	455.9	526.2	612.3	660.0	632.8	773.4	805.1	818.7	830.1	848.2
72.5°	324.3	337.9	392.4	453.6	428.6	492.1	637.3	684.9	703.1	709.9	732.5
75°	235.9	240.4	254.0	235.9	272.2	342.5	449.0	508.0	530.7	537.5	571.5
77.5°	104.3	106.6	108.9	136.1	174.6	213.2	267.6	315.2	347.0	356.1	365.1
80°	54.4	56.7	70.3	93.0	124.7	156.5	195.0	222.3	242.7	244.9	254.0
82.5°	34.0	36.3	49.9	65.8	88.4	115.7	142.9	165.6	181.4	183.7	186.0
85°	15.9	20.4	29.5	40.8	59.0	74.8	77.1	65.8	70.3	72.6	68.0
87.5°	4.5	6.8	9.1	6.8	9.1	9.1	11.3	13.6	13.6	13.6	15.9
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°	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4	2551.4
2.5°	2592.2	2571.8	2492.4	2463.0	2385.9	2399.5	2358.6	2356.4	2347.3	2345.0	2342.8
5°	2655.7	2592.2	2497.0	2424.4	2381.3	2376.8	2347.3	2347.3	2356.4	2363.2	2347.3
7.5°	2760.1	2687.5	2526.5	2458.4	2419.9	2413.1	2392.7	2376.8	2397.2	2390.4	2372.2
10°	2880.3	2753.3	2583.2	2524.2	2460.7	2444.8	2444.8	2451.6	2417.6	2428.9	2410.8
12.5°	3014.1	2844.0	2655.7	2587.7	2512.9	2503.8	2499.3	2449.4	2467.5	2458.4	2413.1
15°	3184.2	2948.3	2748.7	2633.1	2569.6	2528.7	2469.8	2460.7	2449.4	2426.7	2406.3
17.5°	3367.9	3061.7	2791.8	2646.7	2551.4	2521.9	2476.6	2428.9	2394.9	2399.5	2383.6
20°	3524.4	3166.0	2807.7	2660.3	2537.8	2481.1	2410.8	2381.3	2345.0	2342.8	2340.5
22.5°	3710.3	3306.6	2830.4	2624.0	2497.0	2438.0	2390.4	2338.2	2313.3	2281.5	2297.4
25°	3932.6	3361.1	2834.9	2603.6	2467.5	2363.2	2338.2	2281.5	2272.5	2227.1	2236.2
27.5°	4093.6	3390.5	2798.6	2540.1	2399.5	2320.1	2274.7	2233.9	2218.0	2184.0	2174.9
30°	4309.1	3435.9	2721.5	2460.7	2331.4	2243.0	2215.8	2206.7	2161.3	2125.0	2120.5
32.5°	4554.0	3465.4	2671.6	2379.1	2261.1	2193.1	2206.7	2163.6	2106.9	2075.1	2066.1
35°	4749.0	3476.7	2546.9	2286.1	2213.5	2170.4	2154.5	2145.5	2063.8	2034.3	2011.6
37.5°	5046.1	3451.8	2442.6	2220.3	2161.3	2145.5	2131.8	2070.6	1977.6	1934.5	1902.8
40°	5393.1	3445.0	2308.7	2127.3	2111.4	2129.6	2088.8	1993.5	1864.2	1816.6	1793.9
42.5°	5726.5	3492.6	2224.8	2077.4	2057.0	2063.8	2007.1	1864.2	1800.7	1773.5	1737.2
45°	6284.4	3592.4	2086.5	2000.3	1991.2	1986.7	1918.7	1769.0	1732.7	1698.7	1691.9
47.5°	6787.9	3526.6	1998.0	1920.9	1930.0	1905.1	1759.9	1712.3	1671.5	1637.4	1626.1
50°	6817.4	3370.1	1873.3	1859.7	1862.0	1818.9	1680.5	1648.8	1596.6	1573.9	1558.1
52.5°	6663.2	3113.9	1757.6	1762.2	1769.0	1698.7	1583.0	1560.3	1517.2	1485.5	1476.4
55°	6230.0	2714.7	1644.2	1662.4	1680.5	1546.7	1510.4	1453.7	1419.7	1374.4	1376.6
57.5°	5488.4	2186.3	1485.5	1515.0	1553.5	1406.1	1378.9	1308.6	1258.7	1222.4	1217.9
60°	3678.6	1555.8	1247.4	1258.7	1344.9	1285.9	1283.6	1213.3	1145.3	1113.6	1095.4
62.5°	2170.4	1188.4	1077.3	1065.9	1063.7	1097.7	1154.4	1129.4	1041.0	979.7	997.9
65°	1136.2	1027.4	1002.4	963.9	941.2	932.1	975.2	986.5	927.6	861.8	857.3
67.5°	954.8	954.8	934.4	920.8	889.0	850.5	823.3	787.0	777.9	759.8	737.1
70°	868.6	891.3	884.5	852.7	825.5	782.4	712.1	653.2	596.5	576.1	589.7
72.5°	757.5	780.2	780.2	764.3	728.0	662.2	594.2	526.2	478.5	442.2	437.7
75°	582.9	594.2	621.4	603.3	555.6	514.8	444.5	374.2	328.8	294.8	288.0
77.5°	371.9	390.1	390.1	387.8	353.8	315.2	269.9	220.0	186.0	161.0	154.2
80°	247.2	258.5	267.6	258.5	235.9	206.4	172.4	138.3	113.4	93.0	88.4
82.5°	181.4	195.0	201.8	192.8	170.1	147.4	122.5	97.5	72.6	56.7	52.2
85°	70.3	72.6	81.6	97.5	95.3	93.0	74.8	54.4	40.8	29.5	27.2
87.5°	18.1	15.9	18.1	18.1	15.9	13.6	13.6	13.6	13.6	6.8	9.1
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)