

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: P528658

Luminaire Tested: **GALN-SA3D-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528658  
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-SA3D-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 18481 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

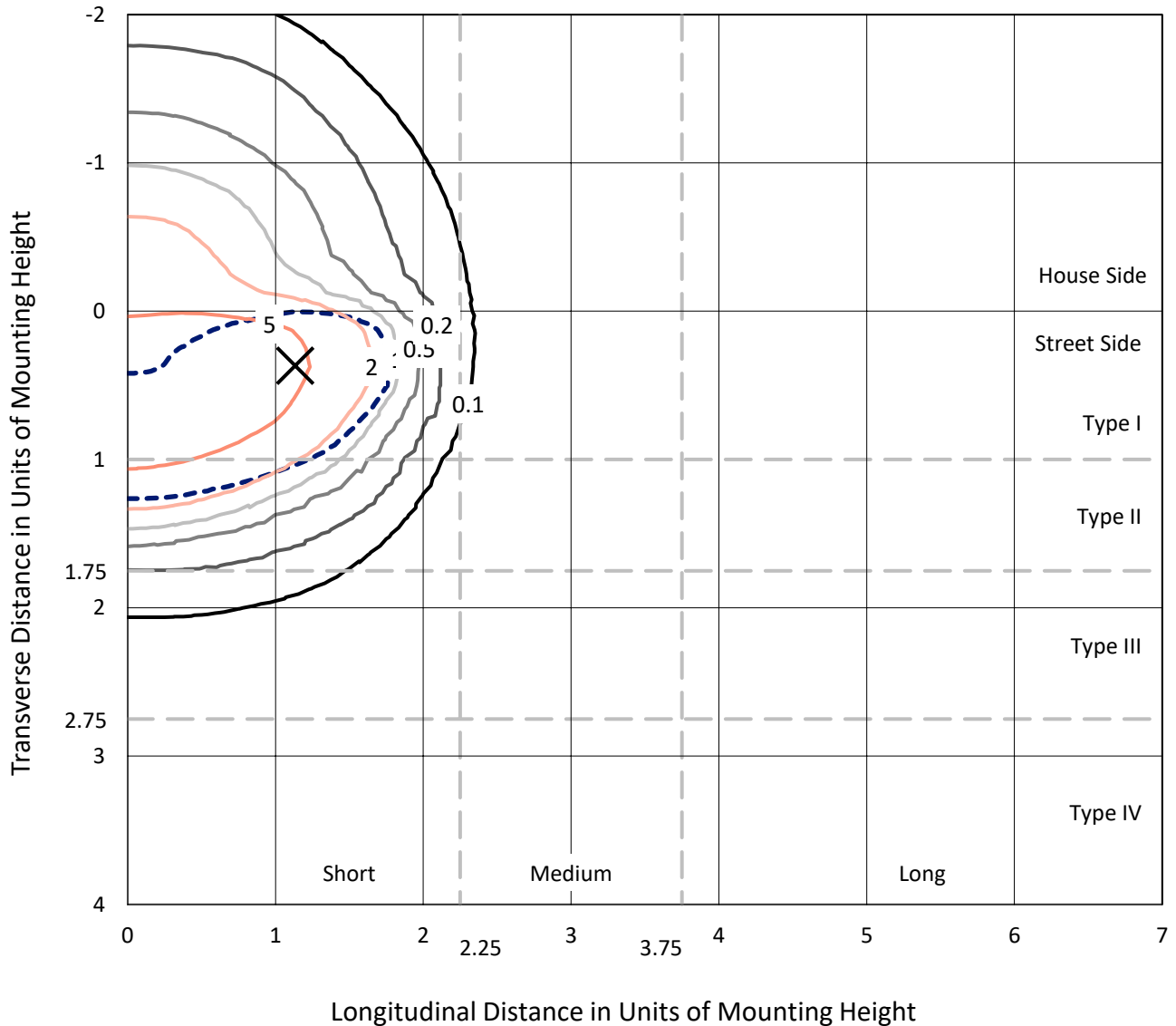
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

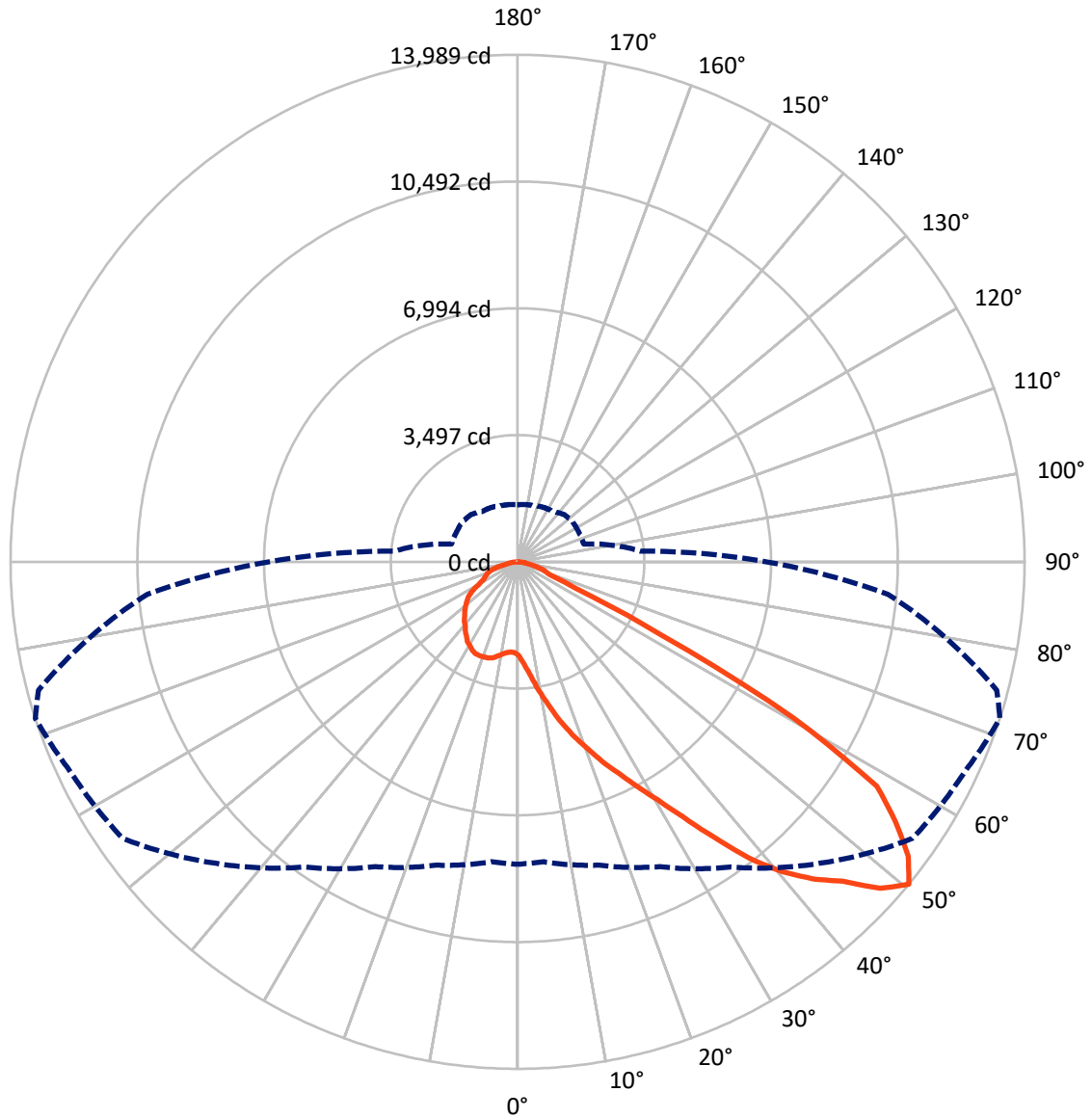
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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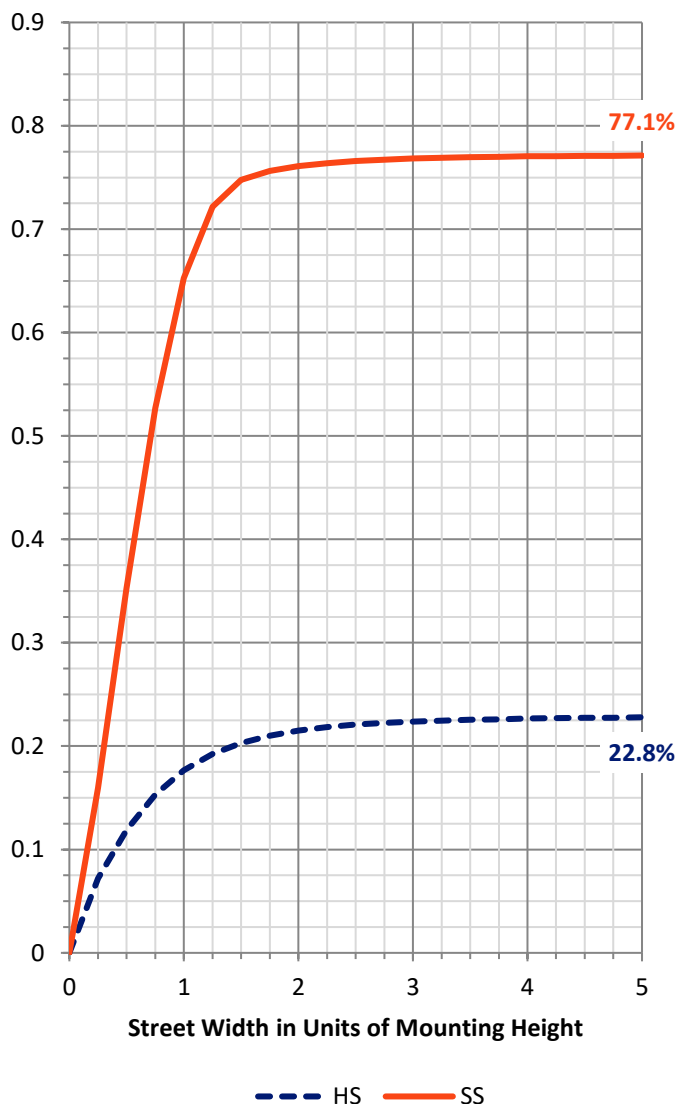
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4234.1	0.0	4234.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	14246.9	0.0	14246.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	18481.0	0.0	18481.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.6	1.6
10°-20°	1131.3	6.1
20°-30°	2193.5	11.9
30°-40°	3633.8	19.7
40°-50°	5084.5	27.5
50°-60°	4289.4	23.2
60°-70°	1307.4	7.1
70°-80°	458.7	2.5
80°-90°	79.7	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°	18481.0	100.0
0°-180°	18481.0	100.0

**Coefficient of Utilization**

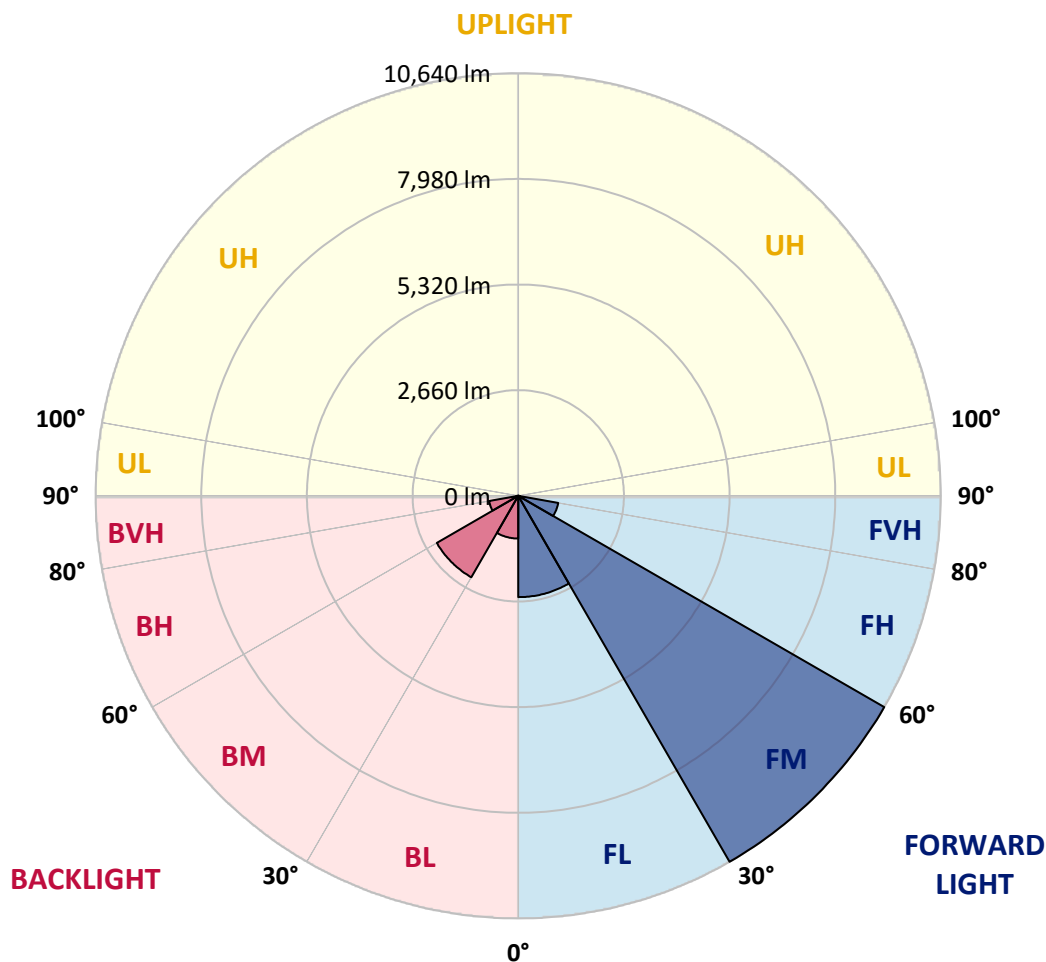


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.0	13.8			
FM (30°-60°)	10640.0	57.6			
FH (60°-80°)	1020.1	5.5			G1/1800
FVH (80°-90°)	35.7	0.2			G1/100
BL (0°-30°)	1076.3	5.8	B3/2500		
BM (30°-60°)	2367.8	12.8	B2/2500		
BH (60°-80°)	746.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	44.0	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°	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7
2.5°	3309.1	3288.5	3226.8	3206.2	3133.0	3000.4	2954.6	2819.7	2762.5	2709.9	2648.2
5°	4184.9	4088.9	4082.0	3965.4	3796.2	3697.8	3405.1	3208.5	3027.8	2936.3	2767.1
7.5°	4742.9	4745.2	4745.2	4649.2	4514.3	4265.0	4002.0	3647.5	3375.4	3240.5	2952.3
10°	5273.5	5227.8	5202.6	5193.4	5102.0	4859.6	4578.3	4139.2	3766.5	3608.7	3091.8
12.5°	5648.5	5609.7	5666.8	5637.1	5570.8	5413.0	5147.7	4646.9	4180.4	3967.7	3315.9
15°	5826.9	5854.4	5900.1	5982.4	5952.7	5893.2	5600.5	5168.3	4626.3	4386.2	3514.9
17.5°	6101.3	6025.9	6080.7	6183.7	6266.0	6238.5	6071.6	5545.6	5067.7	4772.7	3782.5
20°	6293.4	6250.0	6277.4	6396.3	6458.1	6613.6	6526.7	6039.6	5490.7	5179.7	4098.0
22.5°	6842.3	6778.2	6689.1	6707.3	6730.2	6840.0	6860.6	6581.6	5982.4	5653.1	4397.6
25°	7519.2	7459.7	7354.5	7247.0	7180.7	7160.1	7231.0	7006.9	6453.5	6112.8	4720.1
27.5°	8264.7	8164.1	8097.8	7875.9	7697.6	7670.1	7635.8	7514.6	7011.5	6643.3	5083.7
30°	8989.6	8909.6	8820.4	8465.9	8280.7	8251.0	8081.7	8116.1	7617.5	7208.2	5495.3
32.5°	9538.5	9545.3	9341.8	9074.2	8900.4	8742.6	8680.9	8779.2	8395.0	8065.7	5955.0
35°	9982.1	10002.7	9808.3	9565.9	9378.4	9488.2	9460.7	9506.5	9323.5	8921.0	6490.1
37.5°	10414.3	10311.4	10103.3	9986.7	9888.4	10069.0	10302.3	10341.2	10375.5	9902.1	7112.1
40°	10485.2	10494.4	10373.2	10455.5	10332.0	10604.2	11146.1	11095.8	11235.3	10821.4	7786.7
42.5°	10384.6	10405.2	10453.2	10569.8	10867.1	11194.2	11999.1	11793.3	11962.5	11594.4	8443.1
45°	10220.0	10135.3	10194.8	10638.5	11153.0	11880.2	12779.0	12618.9	12564.0	12255.3	9225.2
47.5°	9433.3	9520.2	9705.4	10252.0	11024.9	11999.1	13332.4	13295.8	13460.4	13243.2	9936.4
50°	8342.5	8308.1	8664.9	9280.1	10277.1	11765.9	13302.6	13634.2	13988.7	13686.8	10254.3
52.5°	6247.7	6430.6	6737.1	7500.9	8923.3	10494.4	12653.2	13206.6	13494.7	13430.7	9998.1
55°	3949.4	4004.3	4189.5	5097.4	6378.0	8422.5	10846.6	12129.5	12644.0	12884.1	9762.6
57.5°	1918.7	1815.8	2042.2	2771.7	3684.1	5664.5	8365.3	10565.3	11683.5	12118.0	9250.3
60°	1001.6	1040.5	1129.7	1390.4	1905.0	2940.9	5214.0	7041.2	8749.5	9417.3	7011.5
62.5°	830.1	843.8	903.3	1033.7	1266.9	1692.3	2661.9	3432.6	4461.7	5063.1	3988.3
65°	704.4	711.2	775.2	862.1	1010.8	1191.5	1369.8	1433.9	1735.7	1781.5	1417.9
67.5°	587.7	594.6	663.2	745.5	841.6	889.6	935.3	930.8	965.1	951.3	949.0
70°	452.8	459.7	530.6	617.5	665.5	638.0	779.8	811.8	825.6	837.0	855.3
72.5°	327.0	340.7	395.6	457.4	432.2	496.2	642.6	690.6	708.9	715.8	738.7
75°	237.8	242.4	256.1	237.8	274.4	345.3	452.8	512.3	535.1	542.0	576.3
77.5°	105.2	107.5	109.8	137.2	176.1	215.0	269.8	317.9	349.9	359.0	368.2
80°	54.9	57.2	70.9	93.8	125.8	157.8	196.7	224.1	244.7	247.0	256.1
82.5°	34.3	36.6	50.3	66.3	89.2	116.6	144.1	166.9	182.9	185.2	187.5
85°	16.0	20.6	29.7	41.2	59.5	75.5	77.8	66.3	70.9	73.2	68.6
87.5°	4.6	6.9	9.1	6.9	9.1	9.1	11.4	13.7	13.7	13.7	16.0
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°	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7	2572.7
2.5°	2613.9	2593.3	2513.3	2483.5	2405.8	2419.5	2378.3	2376.0	2366.9	2364.6	2362.3
5°	2677.9	2613.9	2517.8	2444.6	2401.2	2396.6	2366.9	2366.9	2376.0	2382.9	2366.9
7.5°	2783.1	2709.9	2547.6	2479.0	2440.1	2433.2	2412.6	2396.6	2417.2	2410.3	2392.1
10°	2904.3	2776.2	2604.7	2545.3	2481.2	2465.2	2465.2	2472.1	2437.8	2449.2	2430.9
12.5°	3039.2	2867.7	2677.9	2609.3	2533.8	2524.7	2520.1	2469.8	2488.1	2479.0	2433.2
15°	3210.7	2972.9	2771.7	2655.0	2591.0	2549.8	2490.4	2481.2	2469.8	2446.9	2426.4
17.5°	3396.0	3087.3	2815.1	2668.8	2572.7	2543.0	2497.2	2449.2	2414.9	2419.5	2403.5
20°	3553.8	3192.5	2831.1	2682.5	2559.0	2501.8	2430.9	2401.2	2364.6	2362.3	2360.0
22.5°	3741.3	3334.2	2854.0	2645.9	2517.8	2458.4	2410.3	2357.7	2332.6	2300.6	2316.6
25°	3965.4	3389.1	2858.6	2625.3	2488.1	2382.9	2357.7	2300.6	2291.4	2245.7	2254.8
27.5°	4127.8	3418.8	2822.0	2561.3	2419.5	2339.5	2293.7	2252.6	2236.5	2202.2	2193.1
30°	4345.0	3464.6	2744.2	2481.2	2350.9	2261.7	2234.3	2225.1	2179.4	2142.8	2138.2
32.5°	4592.0	3494.3	2693.9	2398.9	2280.0	2211.4	2225.1	2181.7	2124.5	2092.5	2083.3
35°	4788.7	3505.7	2568.1	2305.2	2232.0	2188.5	2172.5	2163.4	2081.0	2051.3	2028.4
37.5°	5088.3	3480.6	2462.9	2238.8	2179.4	2163.4	2149.6	2087.9	1994.1	1950.7	1918.7
40°	5438.1	3473.7	2328.0	2145.1	2129.1	2147.4	2106.2	2010.1	1879.8	1831.8	1808.9
42.5°	5774.3	3521.8	2243.4	2094.8	2074.2	2081.0	2023.9	1879.8	1815.8	1788.3	1751.7
45°	6336.9	3622.4	2103.9	2017.0	2007.9	2003.3	1934.7	1783.7	1747.2	1712.9	1706.0
47.5°	6844.6	3556.1	2014.7	1937.0	1946.1	1921.0	1774.6	1726.6	1685.4	1651.1	1639.7
50°	6874.3	3398.3	1888.9	1875.2	1877.5	1834.1	1694.6	1662.5	1609.9	1587.1	1571.1
52.5°	6718.8	3139.9	1772.3	1776.9	1783.7	1712.9	1596.2	1573.4	1529.9	1497.9	1488.7
55°	6282.0	2737.4	1658.0	1676.3	1694.6	1559.6	1523.0	1465.9	1431.6	1385.8	1388.1
57.5°	5534.2	2204.5	1497.9	1527.6	1566.5	1417.9	1390.4	1319.5	1269.2	1232.6	1228.0
60°	3709.3	1568.8	1257.8	1269.2	1356.1	1296.6	1294.4	1223.5	1154.9	1122.8	1104.6
62.5°	2188.5	1198.3	1086.3	1074.8	1072.5	1106.8	1164.0	1138.9	1049.7	987.9	1006.2
65°	1145.7	1035.9	1010.8	971.9	949.0	939.9	983.3	994.8	935.3	869.0	864.4
67.5°	962.8	962.8	942.2	928.5	896.4	857.6	830.1	793.5	784.4	766.1	743.2
70°	875.9	898.7	891.9	859.9	832.4	789.0	718.1	658.6	601.4	580.9	594.6
72.5°	763.8	786.7	786.7	770.7	734.1	667.8	599.2	530.6	482.5	445.9	441.4
75°	587.7	599.2	626.6	608.3	560.3	519.1	448.2	377.3	331.6	297.3	290.4
77.5°	375.0	393.3	393.3	391.1	356.7	317.9	272.1	221.8	187.5	162.4	155.5
80°	249.3	260.7	269.8	260.7	237.8	208.1	173.8	139.5	114.3	93.8	89.2
82.5°	182.9	196.7	203.5	194.4	171.5	148.6	123.5	98.3	73.2	57.2	52.6
85°	70.9	73.2	82.3	98.3	96.0	93.8	75.5	54.9	41.2	29.7	27.4
87.5°	18.3	16.0	18.3	18.3	16.0	13.7	13.7	13.7	13.7	6.9	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)