

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: P529126

Luminaire Tested: **GALN-SA4B-730-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529126  
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-SA4B-730-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 800mA 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: 18014 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

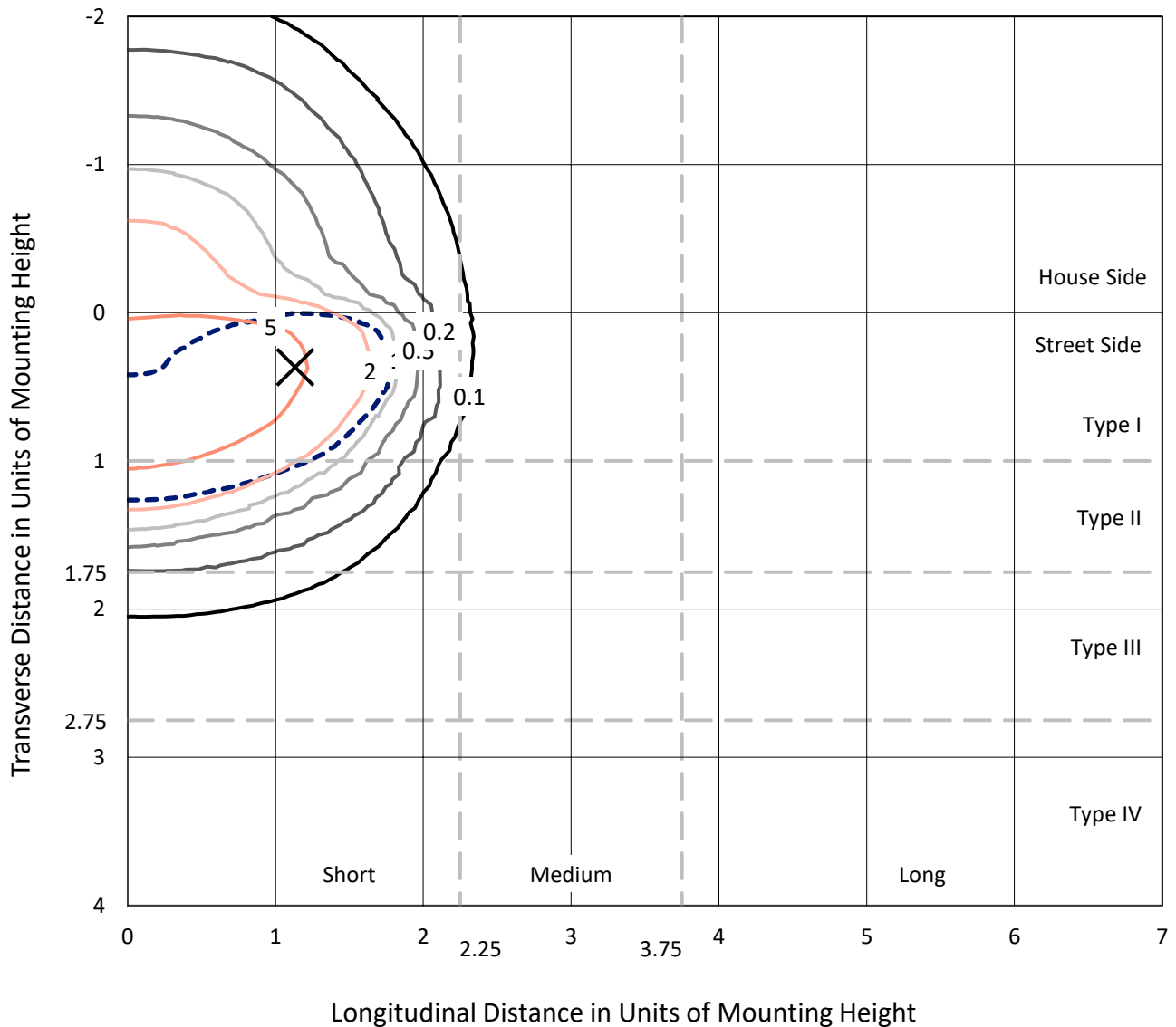
Input Watts (W): 164  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P529126  
 CATALOG NUMBER: GALN-SA4B-730-U-T2R-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

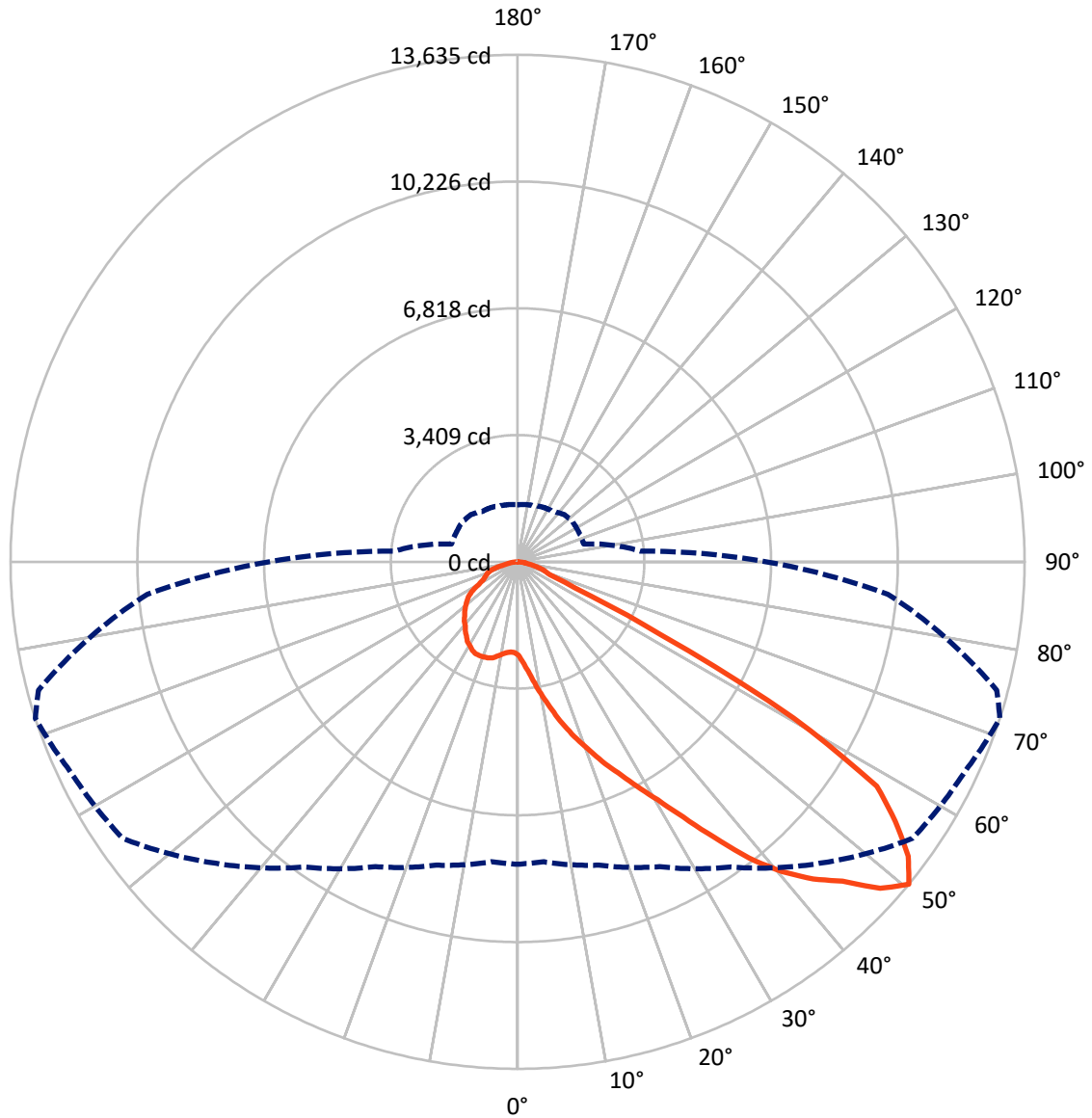
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

REPORT NUMBER: P529126  
CATALOG NUMBER: GALN-SA4B-730-U-T2R-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P529126  
 CATALOG NUMBER: GALN-SA4B-730-U-T2R-GRSWH

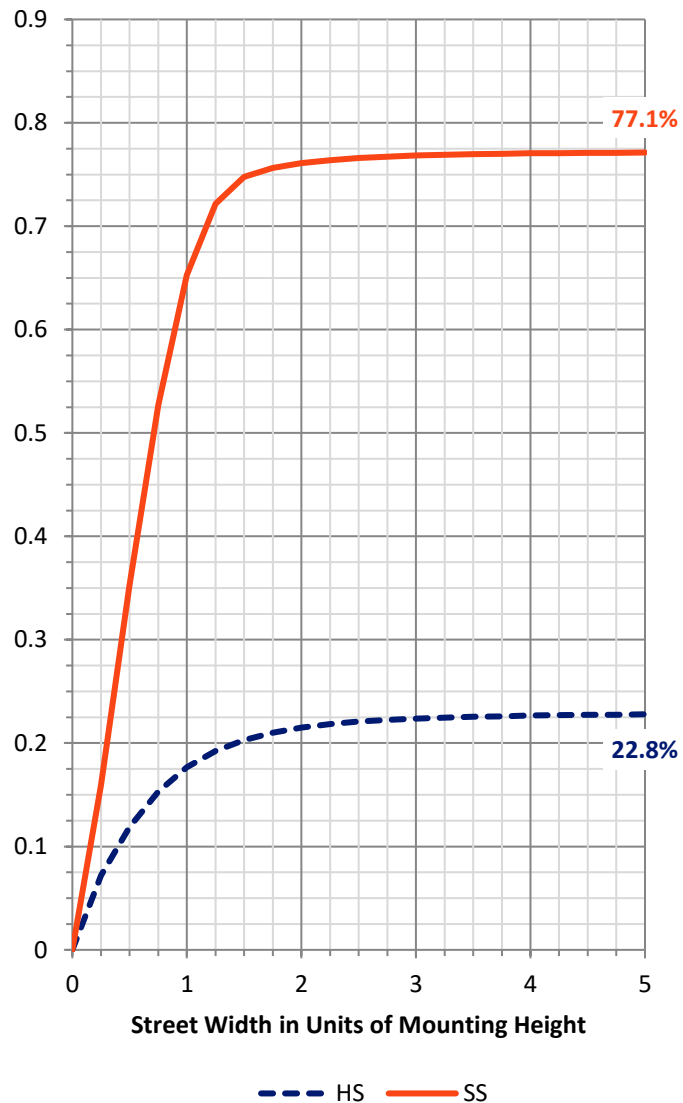
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4127.1	0.0	4127.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	13886.9	0.0	13886.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	18014.0	0.0	18014.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.0	1.6
10°-20°	1102.7	6.1
20°-30°	2138.0	11.9
30°-40°	3542.0	19.7
40°-50°	4956.0	27.5
50°-60°	4181.0	23.2
60°-70°	1274.4	7.1
70°-80°	447.1	2.5
80°-90°	77.7	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°	18014.0	100.0
0°-180°	18014.0	100.0

**Coefficient of Utilization**



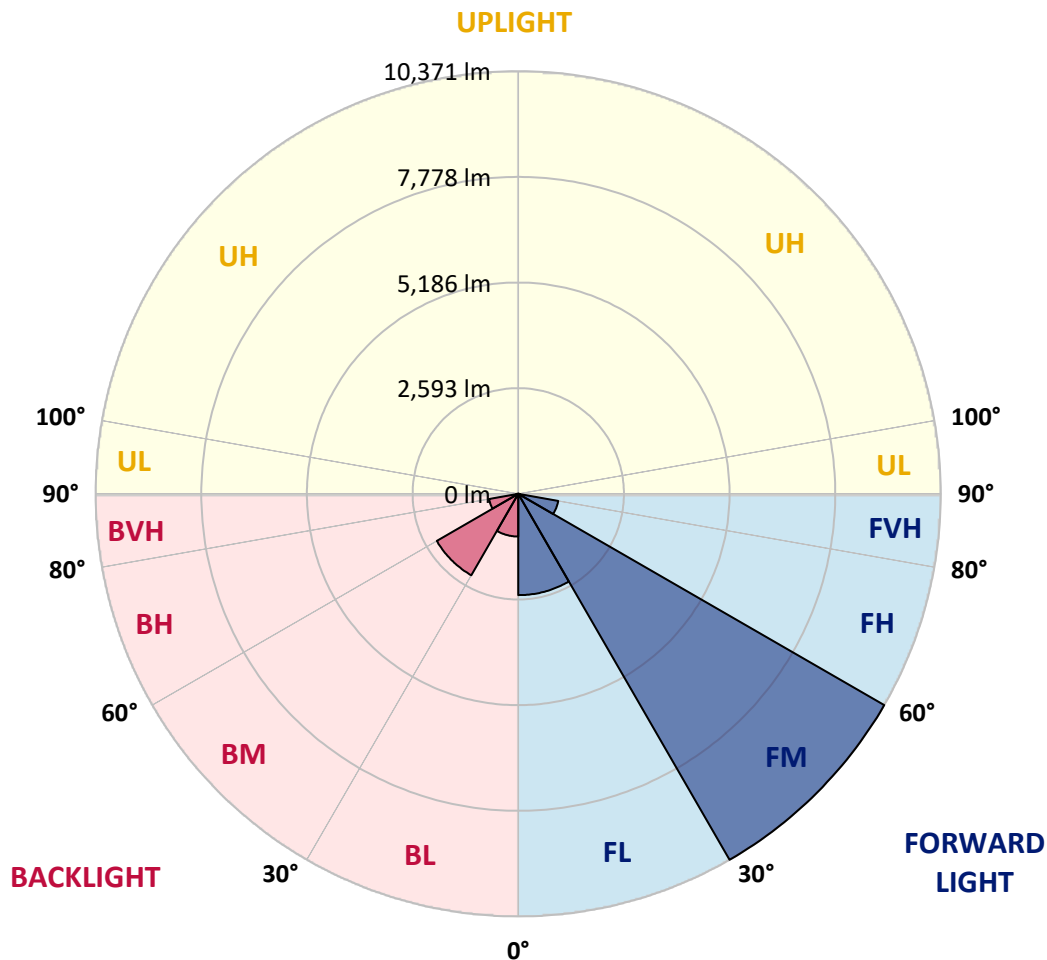
REPORT NUMBER: P529126  
 CATALOG NUMBER: GALN-SA4B-730-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2486.6	13.8			
FM (30°-60°)	10371.1	57.6			
FH (60°-80°)	994.3	5.5			G1/1800
FVH (80°-90°)	34.8	0.2			G1/100
BL (0°-30°)	1049.1	5.8	B3/2500		
BM (30°-60°)	2307.9	12.8	B2/2500		
BH (60°-80°)	727.1	4.0	B2/1000		G2/1000
BVH (80°-90°)	42.9	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





REPORT NUMBER: P529126

CATALOG NUMBER: GALN-SA4B-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7
2.5°	3225.5	3205.4	3145.2	3125.2	3053.8	2924.5	2880.0	2748.4	2692.7	2641.4	2581.3
5°	4079.2	3985.6	3978.9	3865.2	3700.3	3604.4	3319.1	3127.4	2951.3	2862.1	2697.2
7.5°	4623.1	4625.3	4625.3	4531.7	4400.2	4157.2	3900.9	3555.4	3290.1	3158.6	2877.7
10°	5140.2	5095.7	5071.1	5062.2	4973.1	4736.8	4462.6	4034.6	3671.3	3517.5	3013.7
12.5°	5505.8	5467.9	5523.6	5494.7	5430.0	5276.2	5017.6	4529.5	4074.7	3867.4	3232.1
15°	5679.7	5706.4	5751.0	5831.2	5802.3	5744.3	5459.0	5037.7	4509.4	4275.4	3426.1
17.5°	5947.2	5873.6	5927.1	6027.4	6107.6	6080.9	5918.2	5405.5	4939.6	4652.1	3686.9
20°	6134.4	6092.0	6118.8	6234.7	6294.9	6446.5	6361.8	5887.0	5352.0	5048.8	3994.5
22.5°	6669.4	6607.0	6520.0	6537.9	6560.1	6667.1	6687.2	6415.3	5831.2	5510.3	4286.5
25°	7329.2	7271.2	7168.7	7063.9	6999.3	6979.2	7048.3	6829.9	6290.4	5958.3	4600.8
27.5°	8055.9	7957.8	7893.1	7676.9	7503.0	7476.3	7442.9	7324.7	6834.3	6475.4	4955.2
30°	8762.5	8684.5	8597.5	8252.0	8071.5	8042.5	7877.5	7911.0	7425.0	7026.0	5356.5
32.5°	9297.4	9304.1	9105.7	8844.9	8675.5	8521.7	8461.5	8557.4	8182.9	7861.9	5804.5
35°	9729.9	9749.9	9560.5	9324.2	9141.4	9248.4	9221.7	9266.2	9087.9	8695.6	6326.1
37.5°	10151.2	10050.9	9848.0	9734.3	9638.5	9814.6	10042.0	10079.8	10113.3	9651.9	6932.4
40°	10220.3	10229.2	10111.1	10191.3	10070.9	10336.2	10864.5	10815.4	10951.4	10548.0	7590.0
42.5°	10122.2	10142.3	10189.1	10302.8	10592.5	10911.3	11695.9	11495.3	11660.3	11301.4	8229.7
45°	9961.7	9879.2	9937.2	10369.6	10871.2	11580.0	12456.0	12300.0	12246.5	11945.6	8992.1
47.5°	9194.9	9279.6	9460.2	9992.9	10746.3	11695.9	12995.5	12959.8	13120.3	12908.5	9685.3
50°	8131.6	8098.2	8445.9	9045.6	10017.4	11468.6	12966.5	13289.7	13635.2	13341.0	9995.1
52.5°	6089.8	6268.1	6566.8	7311.3	8697.8	10229.2	12333.4	12872.9	13153.7	13091.3	9745.5
55°	3849.6	3903.1	4083.7	4968.6	6216.9	8209.7	10572.5	11823.0	12324.5	12558.6	9515.9
57.5°	1870.2	1769.9	1990.6	2701.6	3591.0	5521.4	8153.9	10298.3	11388.3	11811.8	9016.6
60°	976.3	1014.2	1101.2	1355.3	1856.8	2866.6	5082.3	6863.3	8528.4	9179.3	6834.3
62.5°	809.2	822.5	880.5	1007.5	1234.9	1649.5	2594.6	3345.8	4348.9	4935.2	3887.5
65°	686.6	693.2	755.7	840.4	985.2	1161.3	1335.2	1397.6	1691.9	1736.4	1382.0
67.5°	572.9	579.6	646.4	726.7	820.3	867.1	911.7	907.2	940.7	927.3	925.1
70°	441.4	448.0	517.1	601.8	648.7	621.9	760.1	791.3	804.7	815.8	833.7
72.5°	318.8	332.1	385.6	445.8	421.3	483.7	626.4	673.2	691.0	697.7	720.0
75°	231.8	236.3	249.7	231.8	267.5	336.6	441.4	499.3	521.6	528.3	561.7
77.5°	102.5	104.8	107.0	133.7	171.6	209.5	263.0	309.8	341.0	350.0	358.9
80°	53.5	55.7	69.1	91.4	122.6	153.8	191.7	218.4	238.5	240.7	249.7
82.5°	33.4	35.7	49.0	64.6	86.9	113.7	140.4	162.7	178.3	180.6	182.8
85°	15.6	20.1	29.0	40.1	58.0	73.6	75.8	64.6	69.1	71.3	66.9
87.5°	4.5	6.7	8.9	6.7	8.9	8.9	11.1	13.4	13.4	13.4	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P529126

CATALOG NUMBER: GALN-SA4B-730-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7	2507.7
2.5°	2547.8	2527.8	2449.7	2420.8	2345.0	2358.4	2318.2	2316.0	2307.1	2304.9	2302.6
5°	2610.2	2547.8	2454.2	2382.9	2340.5	2336.1	2307.1	2307.1	2316.0	2322.7	2307.1
7.5°	2712.8	2641.4	2483.2	2416.3	2378.4	2371.7	2351.7	2336.1	2356.1	2349.4	2331.6
10°	2830.9	2706.1	2538.9	2481.0	2418.5	2402.9	2402.9	2409.6	2376.2	2387.3	2369.5
12.5°	2962.4	2795.3	2610.2	2543.4	2469.8	2460.9	2456.4	2407.4	2425.2	2416.3	2371.7
15°	3129.6	2897.8	2701.6	2587.9	2525.5	2485.4	2427.5	2418.5	2407.4	2385.1	2365.0
17.5°	3310.2	3009.2	2744.0	2601.3	2507.7	2478.7	2434.1	2387.3	2353.9	2358.4	2342.8
20°	3464.0	3111.8	2759.6	2614.7	2494.3	2438.6	2369.5	2340.5	2304.9	2302.6	2300.4
22.5°	3646.8	3250.0	2781.9	2579.0	2454.2	2396.2	2349.4	2298.2	2273.7	2242.4	2258.0
25°	3865.2	3303.5	2786.3	2559.0	2425.2	2322.7	2298.2	2242.4	2233.5	2188.9	2197.9
27.5°	4023.5	3332.5	2750.7	2496.6	2358.4	2280.3	2235.8	2195.6	2180.0	2146.6	2137.7
30°	4235.2	3377.0	2674.9	2418.5	2291.5	2204.5	2177.8	2168.9	2124.3	2088.6	2084.2
32.5°	4476.0	3406.0	2625.8	2338.3	2222.4	2155.5	2168.9	2126.5	2070.8	2039.6	2030.7
35°	4667.7	3417.2	2503.2	2246.9	2175.6	2133.2	2117.6	2108.7	2028.5	1999.5	1977.2
37.5°	4959.7	3392.6	2400.7	2182.3	2124.3	2108.7	2095.3	2035.1	1943.7	1901.4	1870.2
40°	5300.7	3386.0	2269.2	2090.9	2075.3	2093.1	2053.0	1959.4	1832.3	1785.5	1763.2
42.5°	5628.4	3432.8	2186.7	2041.8	2021.8	2028.5	1972.7	1832.3	1769.9	1743.1	1707.5
45°	6176.7	3530.8	2050.7	1966.0	1957.1	1952.7	1885.8	1738.7	1703.0	1669.6	1662.9
47.5°	6671.6	3466.2	1963.8	1888.0	1896.9	1872.4	1729.8	1682.9	1642.8	1609.4	1598.2
50°	6700.6	3312.4	1841.2	1827.8	1830.1	1787.7	1651.7	1620.5	1569.3	1547.0	1531.4
52.5°	6549.0	3060.5	1727.5	1732.0	1738.7	1669.6	1555.9	1533.6	1491.2	1460.0	1451.1
55°	6123.3	2668.2	1616.1	1633.9	1651.7	1520.2	1484.6	1428.8	1395.4	1350.8	1353.0
57.5°	5394.3	2148.8	1460.0	1489.0	1526.9	1382.0	1355.3	1286.2	1237.1	1201.5	1197.0
60°	3615.5	1529.1	1226.0	1237.1	1321.8	1263.9	1261.7	1192.6	1125.7	1094.5	1076.6
62.5°	2133.2	1168.0	1058.8	1047.7	1045.4	1078.9	1134.6	1110.1	1023.1	963.0	980.8
65°	1116.8	1009.8	985.2	947.4	925.1	916.1	958.5	969.6	911.7	847.0	842.6
67.5°	938.4	938.4	918.4	905.0	873.8	835.9	809.2	773.5	764.6	746.7	724.4
70°	853.7	876.0	869.3	838.1	811.4	769.0	699.9	642.0	586.2	566.2	579.6
72.5°	744.5	766.8	766.8	751.2	715.5	650.9	584.0	517.1	470.3	434.7	430.2
75°	572.9	584.0	610.8	592.9	546.1	506.0	436.9	367.8	323.2	289.8	283.1
77.5°	365.6	383.4	383.4	381.2	347.7	309.8	265.3	216.2	182.8	158.3	151.6
80°	243.0	254.1	263.0	254.1	231.8	202.8	169.4	136.0	111.5	91.4	86.9
82.5°	178.3	191.7	198.4	189.5	167.2	144.9	120.4	95.8	71.3	55.7	51.3
85°	69.1	71.3	80.2	95.8	93.6	91.4	73.6	53.5	40.1	29.0	26.7
87.5°	17.8	15.6	17.8	17.8	15.6	13.4	13.4	13.4	13.4	6.7	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)