

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: P529802

Luminaire Tested: **GALN-SA5A-727-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529802  
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-727-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 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: 16830 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

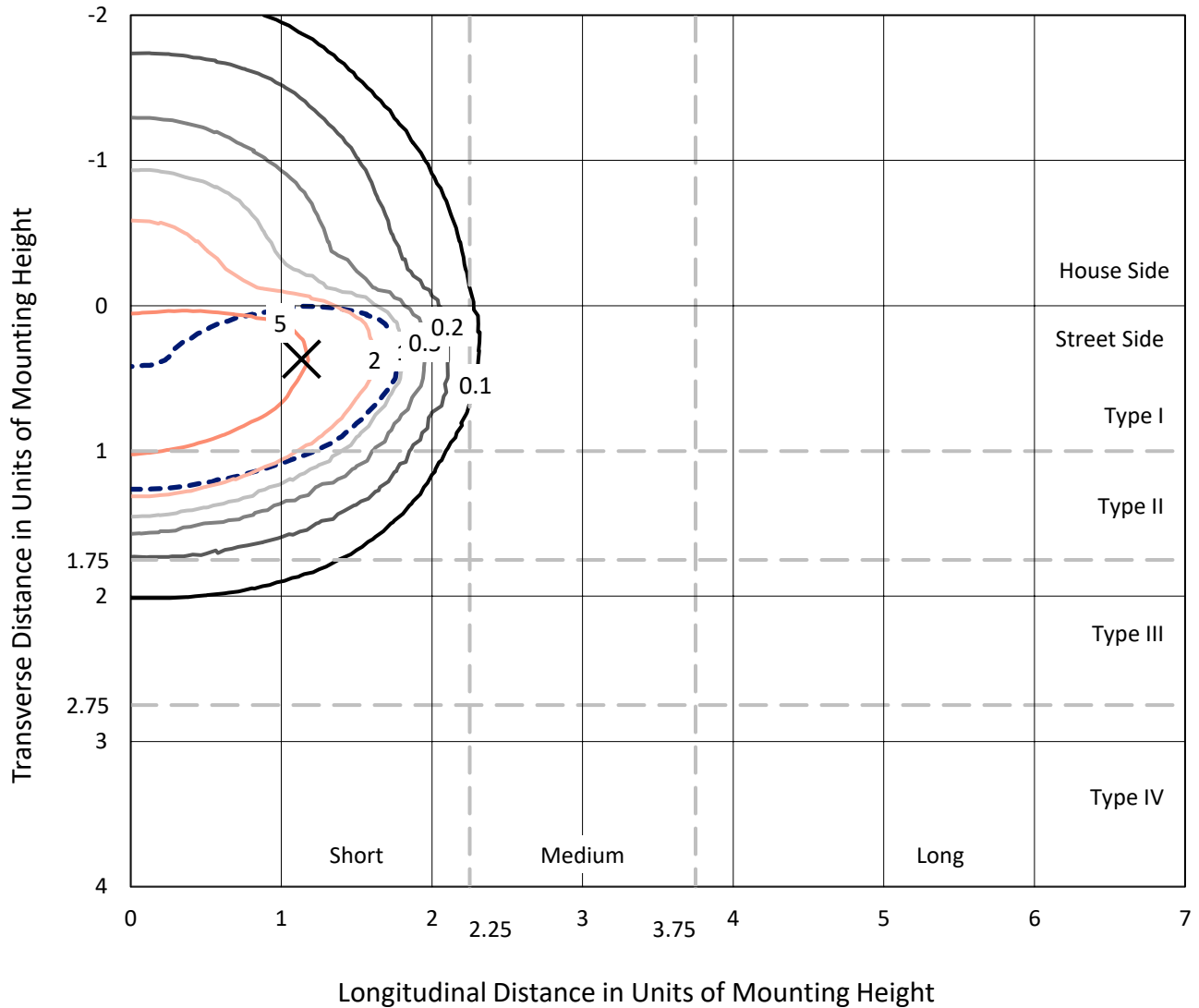
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

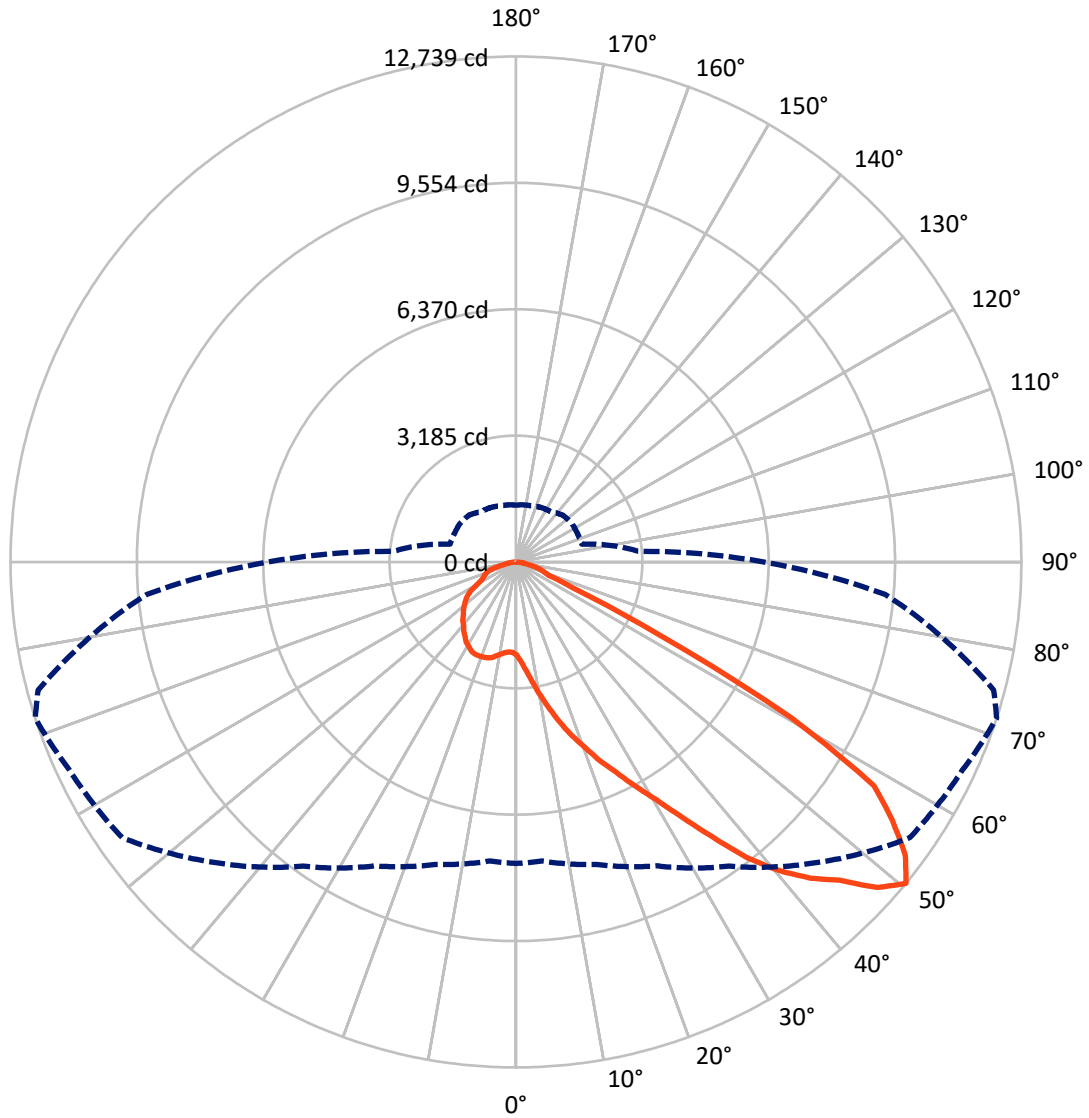
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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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 CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSWH

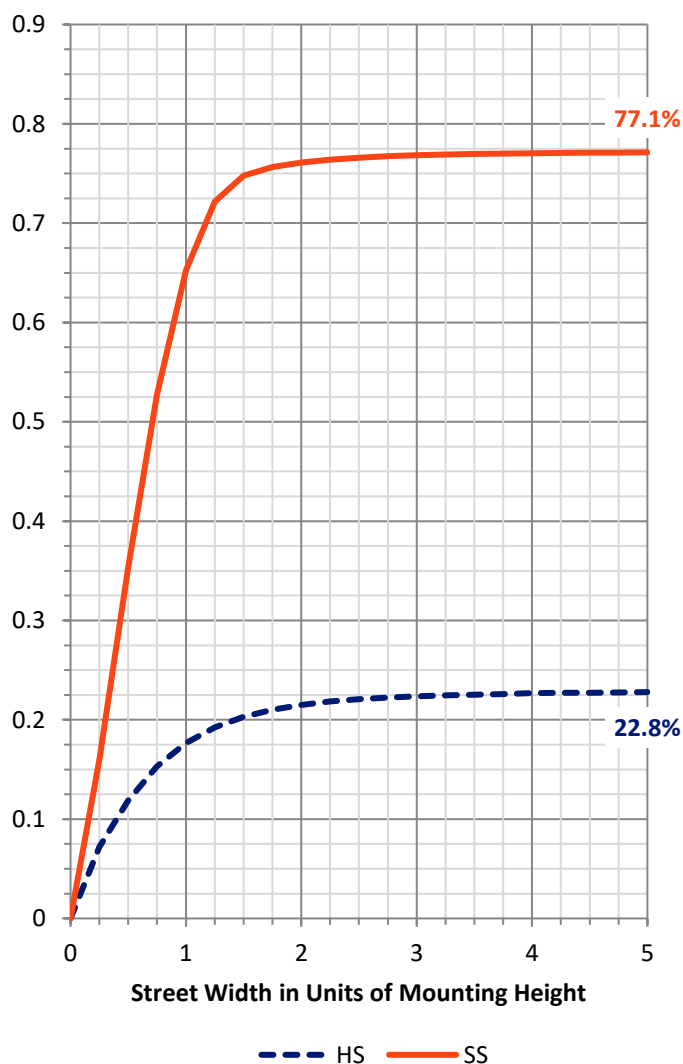
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3855.9	0.0	3855.9
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	12974.1	0.0	12974.1
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	16830.0	0.0	16830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	275.6	1.6
10°-20°	1030.2	6.1
20°-30°	1997.5	11.9
30°-40°	3309.2	19.7
40°-50°	4630.3	27.5
50°-60°	3906.2	23.2
60°-70°	1190.6	7.1
70°-80°	417.7	2.5
80°-90°	72.6	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°	16830.0	100.0
0°-180°	16830.0	100.0

**Coefficient of Utilization**



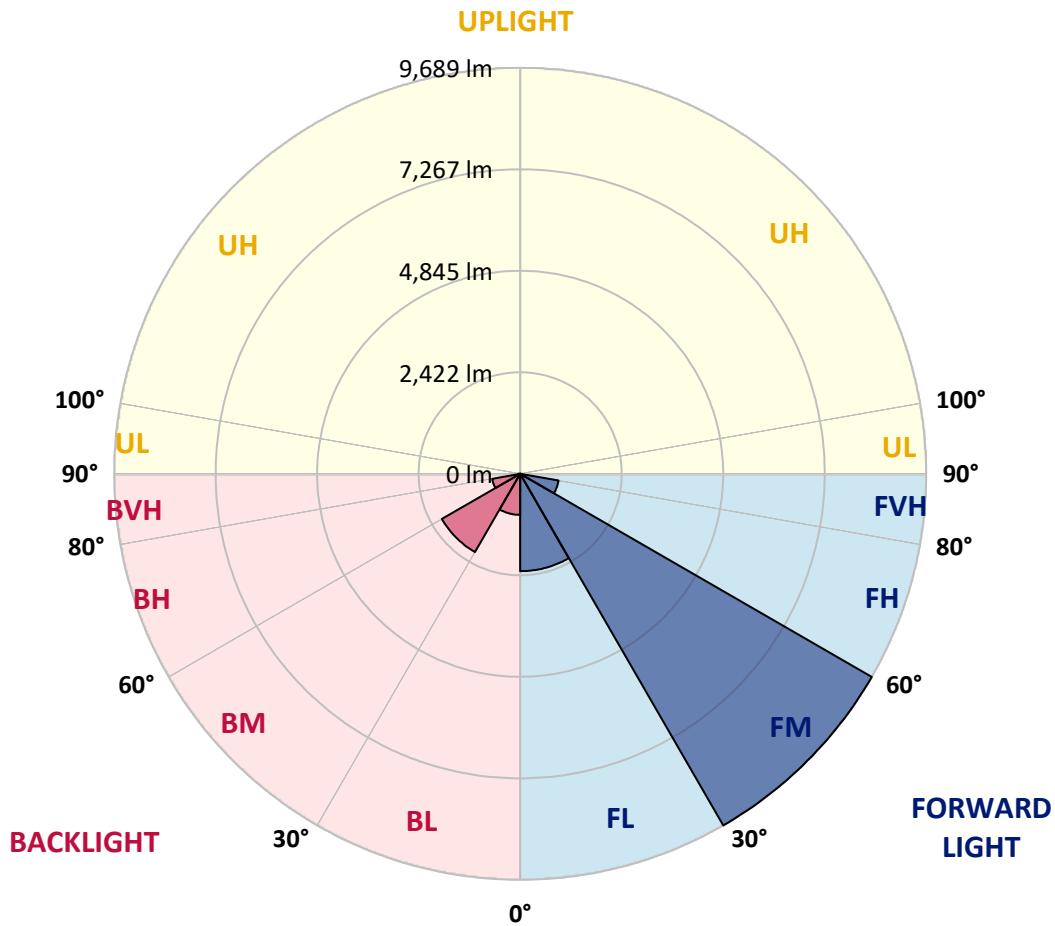
REPORT NUMBER: P529802  
 CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2323.1	13.8			
FM (30°-60°)	9689.5	57.6			
FH (60°-80°)	929.0	5.5			G1/1800
FVH (80°-90°)	32.5	0.2			G1/100
BL (0°-30°)	980.2	5.8	B2/1000		
BM (30°-60°)	2156.3	12.8	B2/2500		
BH (60°-80°)	679.3	4.0	B2/1000		G2/1000
BVH (80°-90°)	40.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9
2.5°	3013.5	2994.7	2938.5	2919.7	2853.1	2732.3	2690.7	2567.8	2515.7	2467.8	2411.6
5°	3811.1	3723.6	3717.4	3611.2	3457.0	3367.5	3100.9	2921.8	2757.3	2674.0	2519.9
7.5°	4319.2	4321.3	4321.3	4233.8	4111.0	3884.0	3644.5	3321.7	3073.9	2951.0	2688.6
10°	4802.4	4760.7	4737.8	4729.5	4646.2	4425.4	4169.3	3769.4	3430.0	3286.3	2815.6
12.5°	5143.9	5108.5	5160.6	5133.5	5073.1	4929.4	4687.8	4231.8	3806.9	3613.2	3019.7
15°	5306.4	5331.4	5373.0	5448.0	5420.9	5366.8	5100.2	4706.6	4213.0	3994.3	3200.9
17.5°	5556.3	5487.5	5537.5	5631.2	5706.2	5681.2	5529.2	5050.2	4615.0	4346.3	3444.6
20°	5731.2	5691.6	5716.6	5824.9	5881.1	6022.8	5943.6	5500.0	5000.2	4717.0	3731.9
22.5°	6231.0	6172.7	6091.5	6108.1	6129.0	6228.9	6247.7	5993.6	5448.0	5148.1	4004.8
25°	6847.5	6793.3	6697.5	6599.6	6539.2	6520.5	6585.1	6381.0	5877.0	5566.7	4298.4
27.5°	7526.4	7434.7	7374.3	7172.3	7009.9	6984.9	6953.7	6843.3	6385.1	6049.8	4629.5
30°	8186.5	8113.7	8032.4	7709.6	7540.9	7513.9	7359.8	7391.0	6937.0	6564.2	5004.4
32.5°	8686.4	8692.6	8507.3	8263.6	8105.3	7961.6	7905.4	7994.9	7645.1	7345.2	5423.0
35°	9090.4	9109.1	8932.1	8711.3	8540.6	8640.5	8615.5	8657.2	8490.6	8124.1	5910.3
37.5°	9484.0	9390.3	9200.7	9094.5	9005.0	9169.5	9381.9	9417.3	9448.6	9017.5	6476.8
40°	9548.5	9556.9	9446.5	9521.5	9409.0	9656.8	10150.4	10104.6	10231.6	9854.7	7091.1
42.5°	9456.9	9475.6	9519.4	9625.6	9896.3	10194.1	10927.2	10739.8	10893.9	10558.6	7688.8
45°	9307.0	9229.9	9284.1	9688.1	10156.6	10818.9	11637.3	11491.6	11441.6	11160.4	8401.0
47.5°	8590.6	8669.7	8838.4	9336.1	10040.0	10927.2	12141.3	12108.0	12257.9	12060.1	9048.7
50°	7597.2	7565.9	7890.8	8451.0	9359.0	10714.8	12114.2	12416.2	12739.0	12464.1	9338.2
52.5°	5689.6	5856.2	6135.2	6830.8	8126.1	9556.9	11522.8	12026.8	12289.2	12230.9	9105.0
55°	3596.6	3646.6	3815.2	4642.0	5808.3	7670.1	9877.6	11045.9	11514.5	11733.1	8890.4
57.5°	1747.3	1653.6	1859.7	2524.1	3355.0	5158.5	7618.0	9621.4	10639.8	11035.5	8424.0
60°	912.2	947.6	1028.8	1266.2	1734.8	2678.2	4748.2	6412.2	7967.9	8576.0	6385.1
62.5°	756.0	768.5	822.6	941.3	1153.7	1541.1	2424.1	3125.9	4063.1	4610.8	3632.0
65°	641.4	647.7	706.0	785.1	920.5	1085.0	1247.5	1305.8	1580.7	1622.3	1291.2
67.5°	535.2	541.5	603.9	678.9	766.4	810.1	851.8	847.6	878.8	866.3	864.3
70°	412.3	418.6	483.2	562.3	606.0	581.0	710.2	739.3	751.8	762.2	778.9
72.5°	297.8	310.3	360.3	416.5	393.6	451.9	585.2	628.9	645.6	651.8	672.7
75°	216.6	220.8	233.2	216.6	249.9	314.5	412.3	466.5	487.3	493.6	524.8
77.5°	95.8	97.9	100.0	125.0	160.4	195.8	245.7	289.5	318.6	327.0	335.3
80°	50.0	52.1	64.6	85.4	114.5	143.7	179.1	204.1	222.8	224.9	233.2
82.5°	31.2	33.3	45.8	60.4	81.2	106.2	131.2	152.0	166.6	168.7	170.8
85°	14.6	18.7	27.1	37.5	54.1	68.7	70.8	60.4	64.6	66.6	62.5
87.5°	4.2	6.2	8.3	6.2	8.3	8.3	10.4	12.5	12.5	12.5	14.6
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: P529802

CATALOG NUMBER: GALN-SA5A-727-U-T2R-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9	2342.9
2.5°	2380.4	2361.6	2288.7	2261.7	2190.9	2203.3	2165.9	2163.8	2155.4	2153.4	2151.3
5°	2438.7	2380.4	2292.9	2226.3	2186.7	2182.5	2155.4	2155.4	2163.8	2170.0	2155.4
7.5°	2534.5	2467.8	2320.0	2257.5	2222.1	2215.8	2197.1	2182.5	2201.3	2195.0	2178.4
10°	2644.9	2528.2	2372.0	2317.9	2259.6	2245.0	2245.0	2251.2	2220.0	2230.4	2213.8
12.5°	2767.7	2611.5	2438.7	2376.2	2307.5	2299.1	2295.0	2249.2	2265.8	2257.5	2215.8
15°	2923.9	2707.3	2524.1	2417.9	2359.5	2322.1	2267.9	2259.6	2249.2	2228.3	2209.6
17.5°	3092.6	2811.5	2563.6	2430.3	2342.9	2315.8	2274.2	2230.4	2199.2	2203.3	2188.8
20°	3236.3	2907.3	2578.2	2442.8	2330.4	2278.3	2213.8	2186.7	2153.4	2151.3	2149.2
22.5°	3407.1	3036.4	2599.0	2409.5	2292.9	2238.8	2195.0	2147.1	2124.2	2095.1	2109.6
25°	3611.2	3086.4	2603.2	2390.8	2265.8	2170.0	2147.1	2095.1	2086.7	2045.1	2053.4
27.5°	3759.0	3113.4	2569.9	2332.5	2203.3	2130.5	2088.8	2051.3	2036.7	2005.5	1997.2
30°	3956.9	3155.1	2499.1	2259.6	2140.9	2059.7	2034.7	2026.3	1984.7	1951.4	1947.2
32.5°	4181.8	3182.2	2453.3	2184.6	2076.3	2013.8	2026.3	1986.8	1934.7	1905.5	1897.2
35°	4360.9	3192.6	2338.7	2099.2	2032.6	1993.0	1978.4	1970.1	1895.1	1868.1	1847.2
37.5°	4633.7	3169.7	2242.9	2038.8	1984.7	1970.1	1957.6	1901.4	1816.0	1776.4	1747.3
40°	4952.3	3163.4	2120.0	1953.4	1938.9	1955.5	1918.0	1830.6	1711.9	1668.1	1647.3
42.5°	5258.5	3207.1	2043.0	1907.6	1888.9	1895.1	1843.1	1711.9	1653.6	1628.6	1595.2
45°	5770.8	3298.8	1916.0	1836.8	1828.5	1824.3	1761.8	1624.4	1591.1	1559.8	1553.6
47.5°	6233.1	3238.4	1834.7	1763.9	1772.3	1749.4	1616.1	1572.3	1534.8	1503.6	1493.2
50°	6260.2	3094.7	1720.2	1707.7	1709.8	1670.2	1543.2	1514.0	1466.1	1445.3	1430.7
52.5°	6118.6	2859.4	1614.0	1618.1	1624.4	1559.8	1453.6	1432.8	1393.2	1364.1	1355.7
55°	5720.8	2492.8	1509.9	1526.5	1543.2	1420.3	1387.0	1334.9	1303.7	1262.0	1264.1
57.5°	5039.8	2007.6	1364.1	1391.1	1426.6	1291.2	1266.2	1201.6	1155.8	1122.5	1118.3
60°	3377.9	1428.6	1145.4	1155.8	1235.0	1180.8	1178.7	1114.2	1051.7	1022.5	1005.9
62.5°	1993.0	1091.3	989.2	978.8	976.7	1008.0	1060.0	1037.1	955.9	899.7	916.3
65°	1043.4	943.4	920.5	885.1	864.3	855.9	895.5	905.9	851.8	791.4	787.2
67.5°	876.8	876.8	858.0	845.5	816.4	781.0	756.0	722.6	714.3	697.7	676.8
70°	797.6	818.4	812.2	783.0	758.1	718.5	653.9	599.8	547.7	529.0	541.5
72.5°	695.6	716.4	716.4	701.8	668.5	608.1	545.6	483.2	439.4	406.1	401.9
75°	535.2	545.6	570.6	554.0	510.2	472.7	408.2	343.6	302.0	270.7	264.5
77.5°	341.5	358.2	358.2	356.1	324.9	289.5	247.8	202.0	170.8	147.9	141.6
80°	227.0	237.4	245.7	237.4	216.6	189.5	158.3	127.0	104.1	85.4	81.2
82.5°	166.6	179.1	185.3	177.0	156.2	135.4	112.5	89.6	66.6	52.1	47.9
85°	64.6	66.6	75.0	89.6	87.5	85.4	68.7	50.0	37.5	27.1	25.0
87.5°	16.7	14.6	16.7	16.7	14.6	12.5	12.5	12.5	12.5	6.2	8.3
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)