

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: P528324

Luminaire Tested: **GALN-SA3B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528324
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10900 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

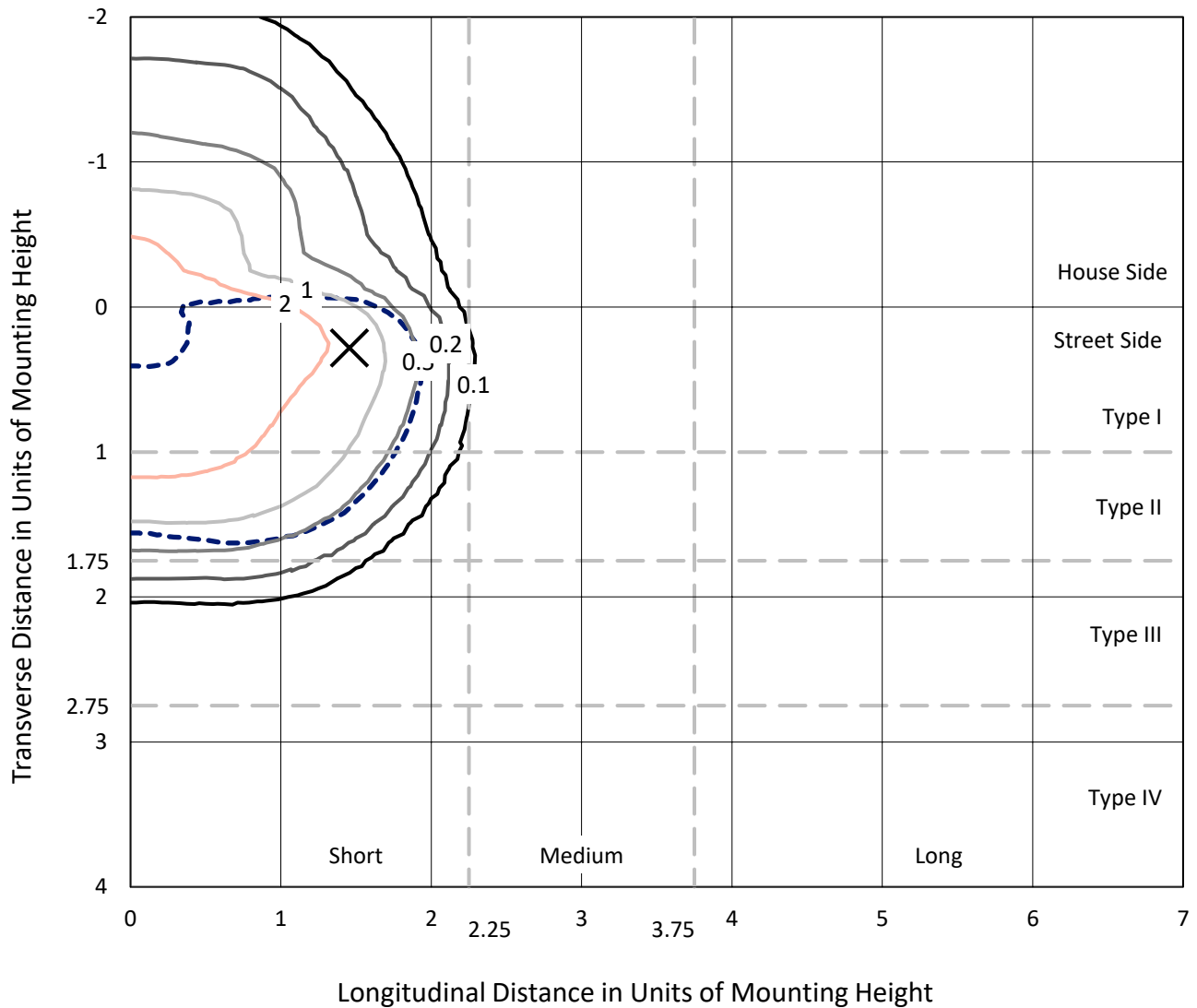
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528324
 CATALOG NUMBER: GALN-SA3B-827-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

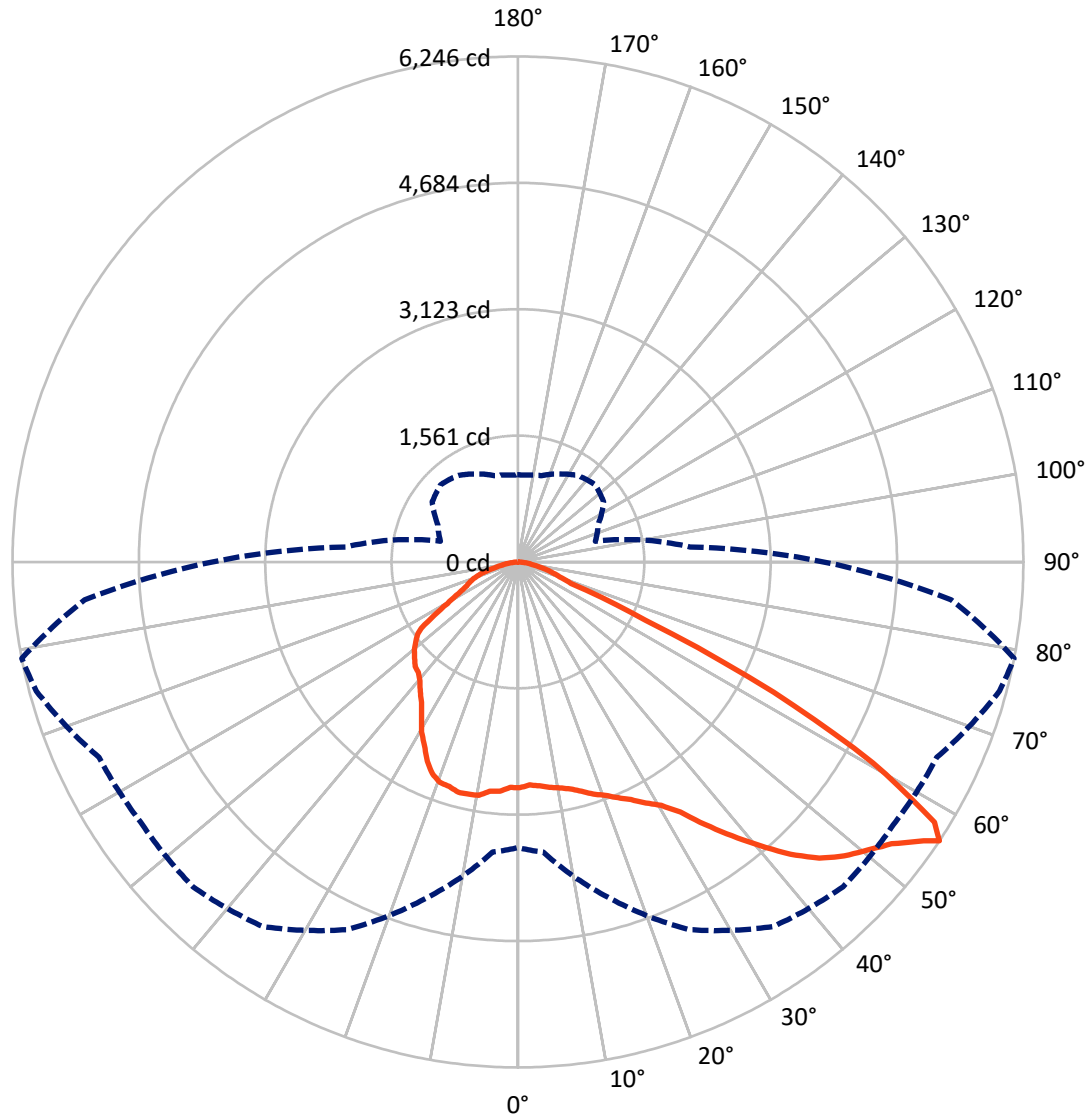
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

REPORT NUMBER: P528324
CATALOG NUMBER: GALN-SA3B-827-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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 CATALOG NUMBER: GALN-SA3B-827-U-T3R-GRSWH

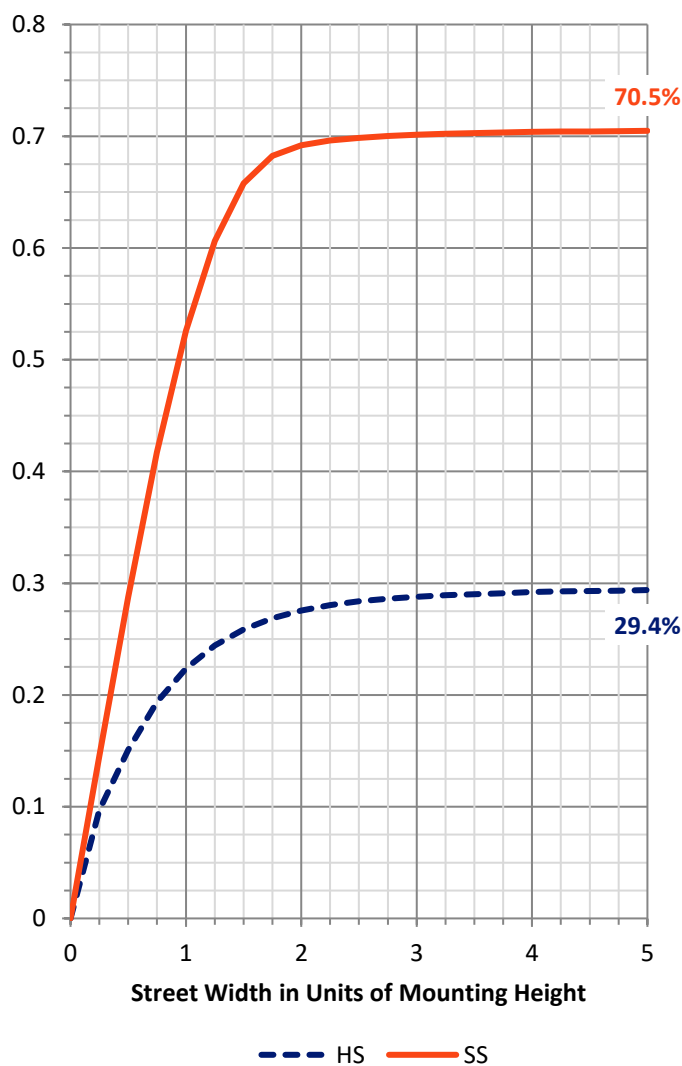
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3219.0	0.0	3219.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7681.0	0.0	7681.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	10900.0	0.0	10900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.6	2.3
10°-20°	693.9	6.4
20°-30°	1187.2	10.9
30°-40°	1819.5	16.7
40°-50°	2459.0	22.6
50°-60°	2824.3	25.9
60°-70°	1287.4	11.8
70°-80°	317.4	2.9
80°-90°	57.7	0.5
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°	10900.0	100.0
0°-180°	10900.0	100.0

Coefficient of Utilization



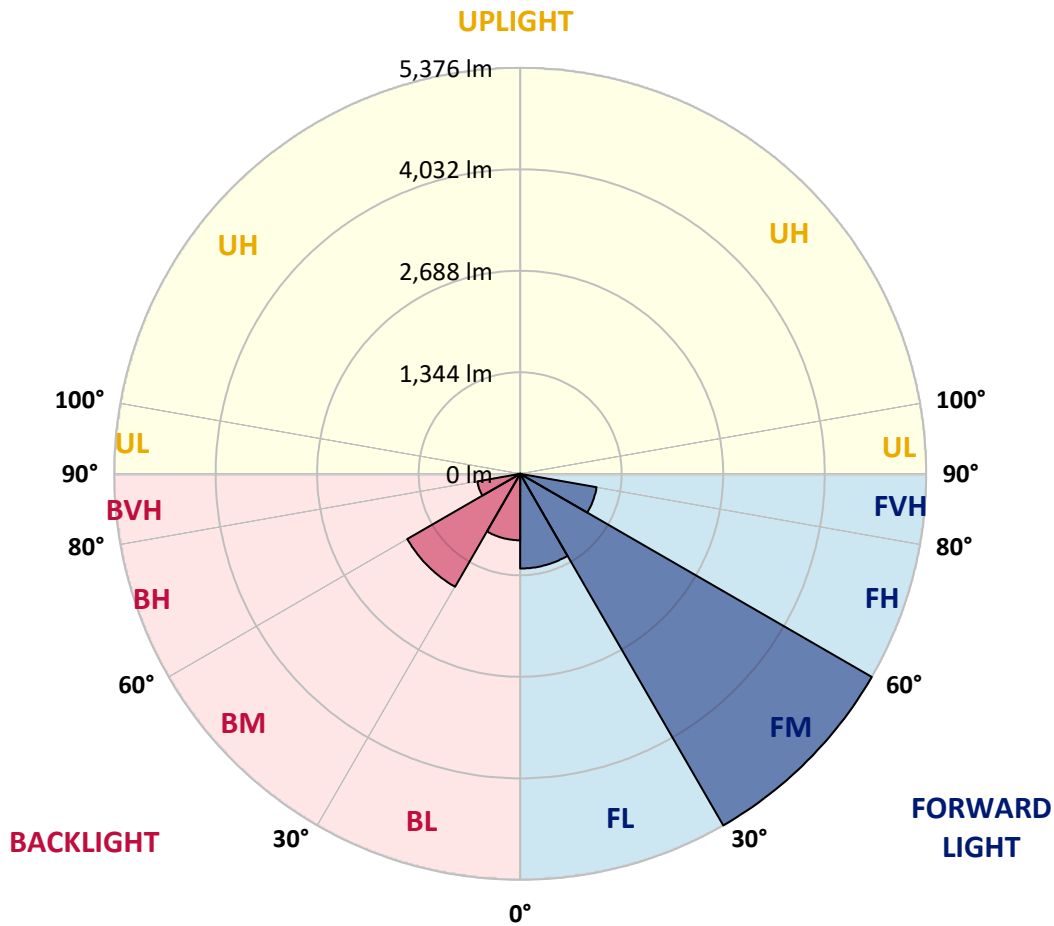
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 CATALOG NUMBER: GALN-SA3B-827-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1254.1	11.5			
FM (30°-60°)	5376.2	49.3			
FH (60°-80°)	1027.6	9.4			G1/1800
FVH (80°-90°)	23.0	0.2			G1/100
BL (0°-30°)	880.5	8.1	B2/1000		
BM (30°-60°)	1726.6	15.8	B2/2500		
BH (60°-80°)	577.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	34.6	0.3			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°	75°	79°	85°
0°	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9
2.5°	2653.1	2646.3	2662.6	2674.8	2689.8	2708.8	2718.3	2723.7	2771.2	2759.0	2795.7
5°	2596.1	2578.4	2590.6	2600.1	2625.9	2649.0	2674.8	2715.6	2759.0	2778.0	2822.8
7.5°	2545.8	2536.3	2533.6	2540.4	2575.7	2605.6	2650.4	2710.1	2780.7	2812.0	2837.8
10°	2463.0	2449.4	2469.8	2514.6	2524.1	2586.6	2638.2	2723.7	2784.8	2839.1	2915.2
12.5°	2426.4	2412.8	2416.8	2442.6	2509.2	2568.9	2630.0	2726.4	2855.4	2877.1	2979.0
15°	2484.7	2471.2	2475.2	2468.4	2532.3	2563.5	2659.9	2780.7	2904.3	2940.9	3049.6
17.5°	2617.8	2619.2	2601.5	2586.6	2571.6	2638.2	2704.7	2813.3	2923.3	3015.6	3097.1
20°	2871.7	2826.9	2791.6	2707.4	2684.3	2712.8	2797.0	2901.6	3000.7	3076.7	3169.1
22.5°	3067.2	3071.3	3021.1	2882.6	2832.3	2844.5	2916.5	3002.0	3110.7	3165.0	3270.9
25°	3351.0	3322.5	3268.2	3158.2	3045.5	3055.0	3108.0	3185.3	3215.2	3253.2	3368.7
27.5°	3610.3	3618.5	3511.2	3408.0	3268.2	3241.0	3336.1	3349.6	3299.4	3371.4	3410.7
30°	3873.7	3867.0	3796.4	3675.5	3538.4	3543.8	3585.9	3519.4	3450.1	3489.5	3516.6
32.5°	4146.7	4069.3	4066.5	3957.9	3853.4	3803.1	3751.5	3784.1	3676.9	3685.0	3659.2
35°	4365.3	4376.1	4313.7	4236.3	4184.7	4096.4	3955.2	4013.6	3993.2	3983.7	3872.4
37.5°	4524.1	4482.0	4513.3	4487.5	4438.6	4328.6	4182.0	4237.6	4247.1	4293.3	4164.3
40°	4654.5	4636.8	4719.6	4733.2	4699.3	4461.7	4198.3	4363.9	4506.5	4606.9	4453.5
42.5°	4716.9	4754.9	4841.8	4946.4	4870.4	4616.4	4282.4	4460.3	4778.0	4936.9	4727.8
45°	4801.1	4752.2	4881.2	5072.7	5074.0	4746.8	4363.9	4590.7	4989.8	5220.7	4915.2
47.5°	4715.6	4740.0	4873.1	5116.1	5178.6	4883.9	4583.9	4775.3	5223.4	5428.4	5089.0
50°	4524.1	4573.0	4816.0	5068.6	5257.3	5029.2	4836.4	4974.9	5439.3	5595.4	5117.5
52.5°	4324.5	4351.7	4731.9	5105.2	5292.6	5216.6	5174.5	5250.5	5702.7	5784.1	5152.8
55°	3781.4	3910.4	4453.5	5089.0	5465.1	5554.7	5522.1	5633.4	6001.4	6082.9	5345.6
56°	3530.2	3598.1	4286.5	5012.9	5499.0	5678.2	5661.9	5712.2	6160.2	6245.8	5375.4
57.5°	3065.9	3071.3	3655.1	4676.2	5371.4	5714.9	5698.6	5738.0	6129.0	6070.6	5113.4
60°	1918.5	2002.7	2487.5	3596.8	4567.6	5302.1	5394.5	5078.1	5167.7	5044.1	3978.3
62.5°	993.9	981.7	1303.5	2103.2	3031.9	3796.4	3881.9	3867.0	3728.5	3547.9	2598.8
65°	495.6	498.3	681.6	1041.4	1553.3	1987.8	2226.8	2252.6	1884.6	1733.9	1232.9
67.5°	359.8	373.4	490.2	636.8	731.8	818.7	1003.4	984.4	745.4	708.8	657.2
70°	279.7	291.9	397.8	486.1	441.3	441.3	480.7	496.9	530.9	545.8	563.5
72.5°	203.7	213.2	304.1	335.4	289.2	310.9	359.8	397.8	433.1	438.6	458.9
75°	139.9	148.0	199.6	184.7	173.8	214.5	263.4	298.7	324.5	338.1	350.3
77.5°	91.0	93.7	114.1	96.4	111.3	138.5	171.1	201.0	226.7	237.6	240.3
80°	40.7	44.8	48.9	61.1	77.4	99.1	122.2	146.6	162.9	167.0	175.2
82.5°	23.1	23.1	29.9	43.4	57.0	72.0	88.3	105.9	124.9	129.0	127.6
85°	12.2	12.2	17.7	25.8	35.3	42.1	40.7	42.1	44.8	51.6	50.2
87.5°	4.1	4.1	5.4	5.4	6.8	8.1	6.8	9.5	12.2	12.2	12.2
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: P528324

CATALOG NUMBER: GALN-SA3B-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9	2788.9
2.5°	2784.8	2797.0	2780.7	2816.0	2816.0	2809.2	2775.3	2786.2	2794.3	2794.3	2801.1
5°	2837.8	2833.7	2844.5	2802.5	2776.7	2767.2	2711.5	2684.3	2661.2	2659.9	2639.5
7.5°	2867.6	2856.8	2852.7	2821.5	2707.4	2638.2	2518.7	2449.4	2434.5	2381.5	2401.9
10°	2915.2	2935.5	2915.2	2745.4	2586.6	2427.7	2310.9	2203.7	2161.6	2127.6	2107.3
12.5°	3012.9	3003.4	2885.3	2655.8	2433.1	2244.4	2070.6	1957.9	1915.8	1886.0	1883.2
15°	3095.7	3048.2	2867.6	2514.6	2194.2	1993.2	1850.7	1770.5	1751.5	1754.3	1766.5
17.5°	3124.2	3091.7	2775.3	2368.0	2016.3	1780.0	1713.5	1701.3	1718.9	1739.3	1744.7
20°	3169.1	3117.5	2737.3	2168.4	1796.3	1647.0	1642.9	1686.4	1718.9	1748.8	1752.9
22.5°	3262.7	3132.4	2613.7	1979.6	1645.6	1607.6	1647.0	1683.6	1733.9	1758.3	1736.6
25°	3289.9	3099.8	2439.9	1752.9	1550.6	1583.2	1625.3	1675.5	1710.8	1724.4	1733.9
27.5°	3313.0	3049.6	2205.0	1602.2	1520.7	1581.8	1625.3	1667.4	1686.4	1698.6	1709.4
30°	3378.2	3034.6	2001.4	1501.7	1501.7	1554.7	1610.3	1621.2	1647.0	1661.9	1680.9
32.5°	3410.7	2931.4	1792.3	1437.9	1482.7	1568.2	1572.3	1592.7	1594.0	1606.3	1585.9
35°	3496.3	2858.1	1598.1	1391.7	1490.8	1554.7	1575.0	1562.8	1496.3	1463.7	1470.5
37.5°	3558.7	2821.5	1458.3	1386.3	1492.2	1569.6	1580.5	1488.1	1418.9	1364.6	1378.1
40°	3727.1	2730.5	1352.3	1376.8	1504.4	1585.9	1556.0	1455.5	1330.6	1275.0	1265.5
42.5°	3856.1	2665.3	1285.8	1365.9	1513.9	1609.0	1543.8	1390.4	1262.7	1211.1	1224.7
45°	4005.4	2650.4	1250.5	1368.6	1530.2	1621.2	1528.9	1340.1	1204.4	1184.0	1179.9
47.5°	4058.4	2543.1	1212.5	1345.6	1526.1	1617.1	1478.6	1302.1	1182.6	1185.3	1196.2
50°	3970.1	2433.1	1184.0	1298.0	1499.0	1580.5	1399.9	1251.9	1170.4	1204.4	1223.4
52.5°	3857.5	2320.4	1125.6	1234.2	1443.3	1523.4	1363.2	1249.2	1158.2	1147.3	1151.4
55°	3891.4	2228.1	1044.1	1147.3	1353.7	1417.5	1322.5	1223.4	1128.3	1087.6	1101.2
56°	3781.4	2133.1	991.2	1093.0	1292.6	1349.6	1302.1	1200.3	1103.9	1076.7	1076.7
57.5°	3470.5	1814.0	921.9	1006.1	1163.6	1231.5	1262.7	1186.7	1076.7	1029.2	1030.6
60°	2559.4	1289.9	826.9	886.6	964.0	1018.3	1163.6	1148.7	1008.8	976.2	964.0
62.5°	1577.7	942.3	759.0	782.1	821.5	866.3	1015.6	1040.1	936.9	901.6	893.4
65°	883.9	721.0	707.4	716.9	735.9	759.0	843.2	897.5	826.9	772.6	769.9
67.5°	646.3	644.9	655.8	664.0	672.1	672.1	692.5	714.2	704.7	661.2	657.2
70°	574.3	578.4	586.6	587.9	590.6	581.1	564.8	558.0	568.9	541.8	536.3
72.5°	473.9	487.4	496.9	498.3	483.4	471.1	449.4	426.3	418.2	412.8	411.4
75°	363.9	373.4	377.5	376.1	370.7	353.0	327.2	304.1	289.2	272.9	281.1
77.5°	245.8	259.3	266.1	266.1	258.0	230.8	218.6	201.0	186.0	168.4	171.1
80°	172.4	181.9	192.8	191.4	177.9	164.3	146.6	130.3	118.1	104.5	103.2
82.5°	129.0	134.4	139.9	137.1	127.6	114.1	101.8	86.9	73.3	63.8	63.8
85°	46.2	50.2	61.1	63.8	69.2	69.2	58.4	48.9	39.4	32.6	32.6
87.5°	13.6	13.6	14.9	14.9	13.6	14.9	12.2	13.6	14.9	9.5	9.5
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)