

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: P529800

Luminaire Tested: **GALN-SA5A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16065 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

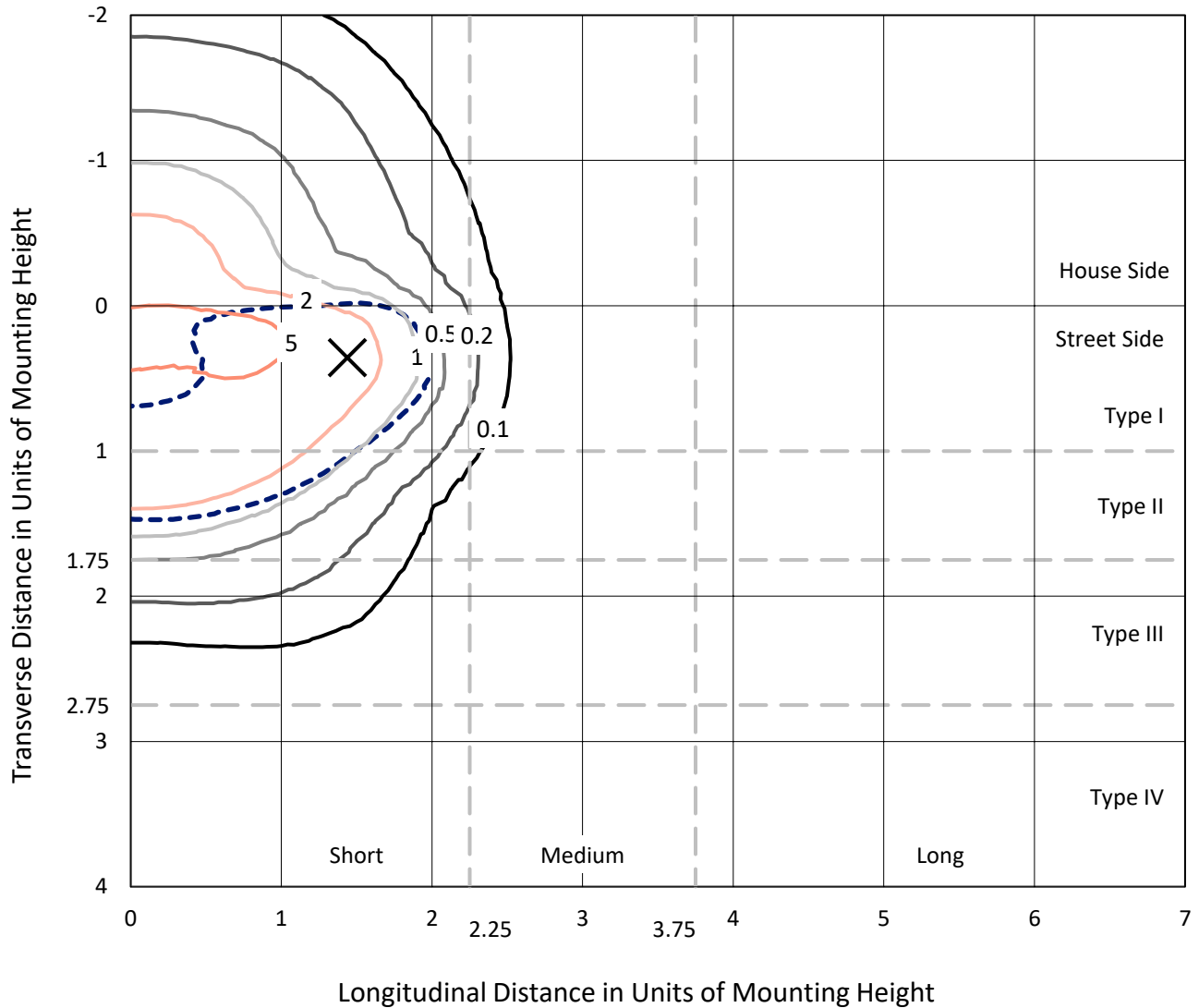
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

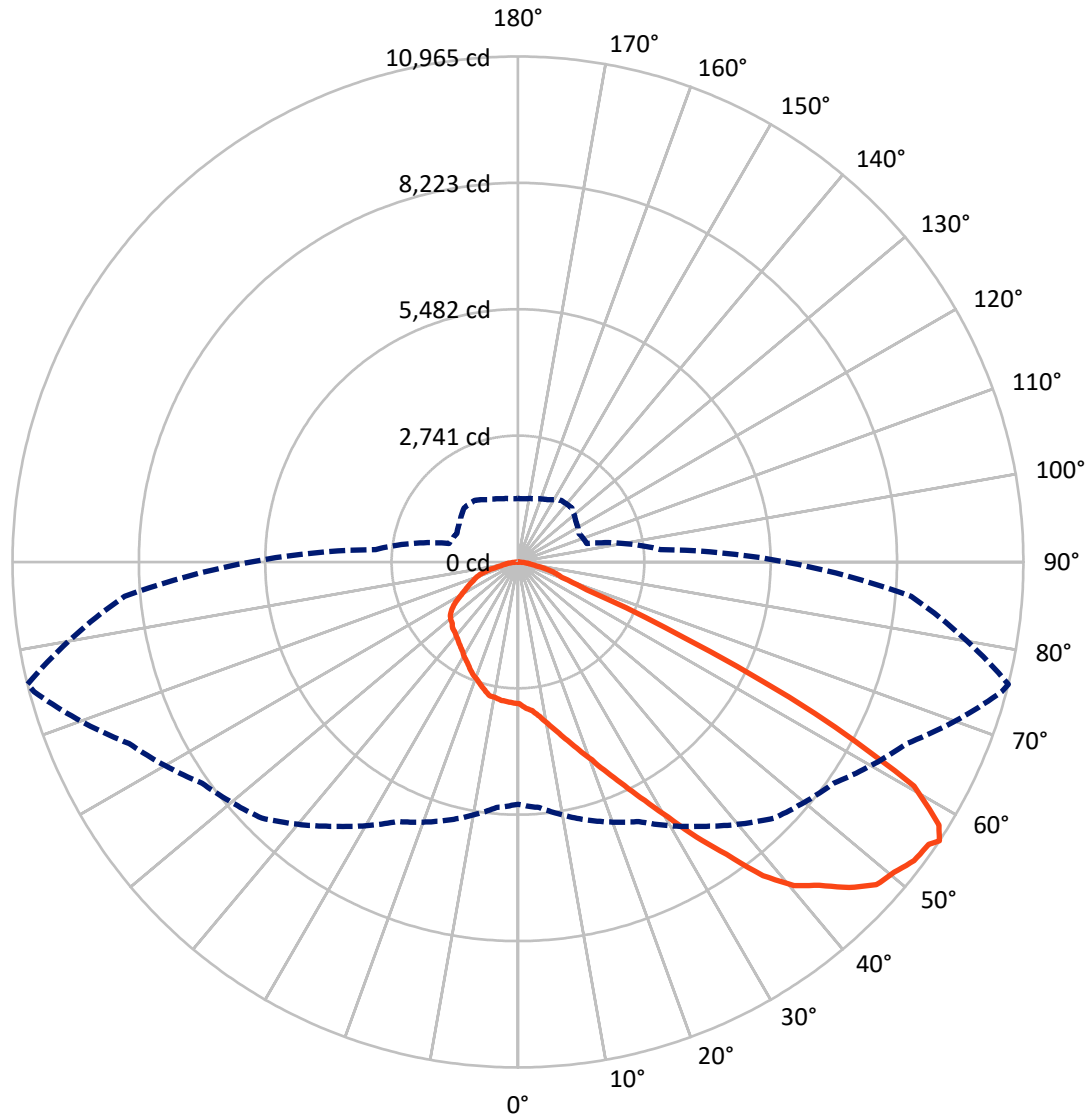
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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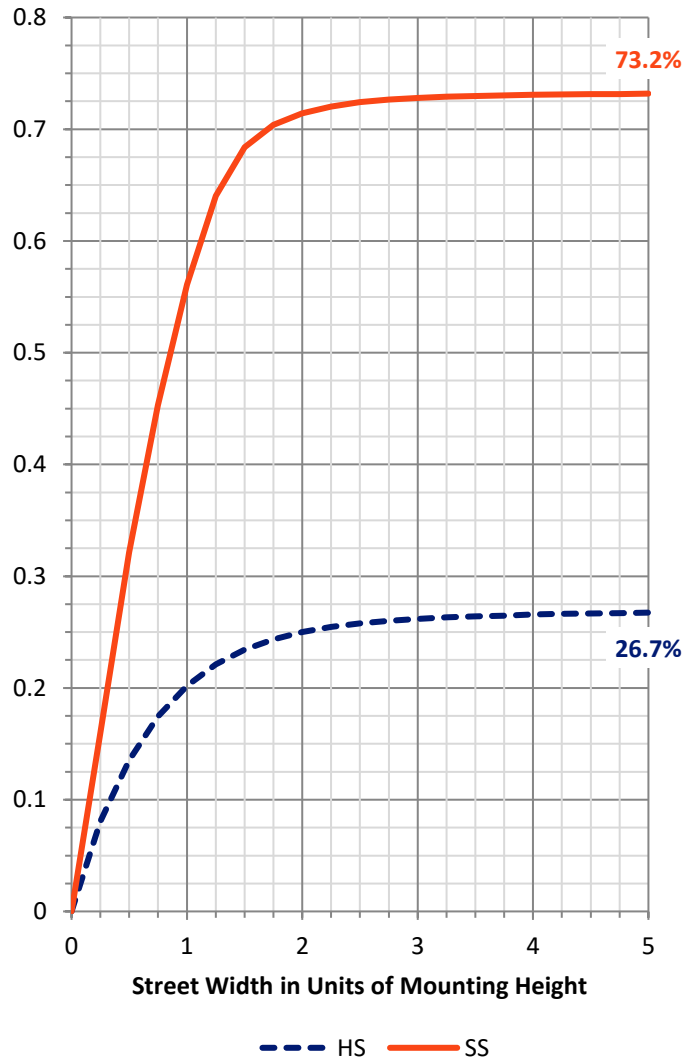
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4319.4	0.0	4319.4
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	11745.6	0.0	11745.6
	% Fixture	73.1	0.0	73.1
Total	Lumens	16065.0	0.0	16065.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	1.9
10°-20°	957.6	6.0
20°-30°	1674.7	10.4
30°-40°	2622.0	16.3
40°-50°	3814.3	23.7
50°-60°	4192.2	26.1
60°-70°	1871.2	11.6
70°-80°	540.5	3.4
80°-90°	87.7	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°	16065.0	100.0
0°-180°	16065.0	100.0

Coefficient of Utilization



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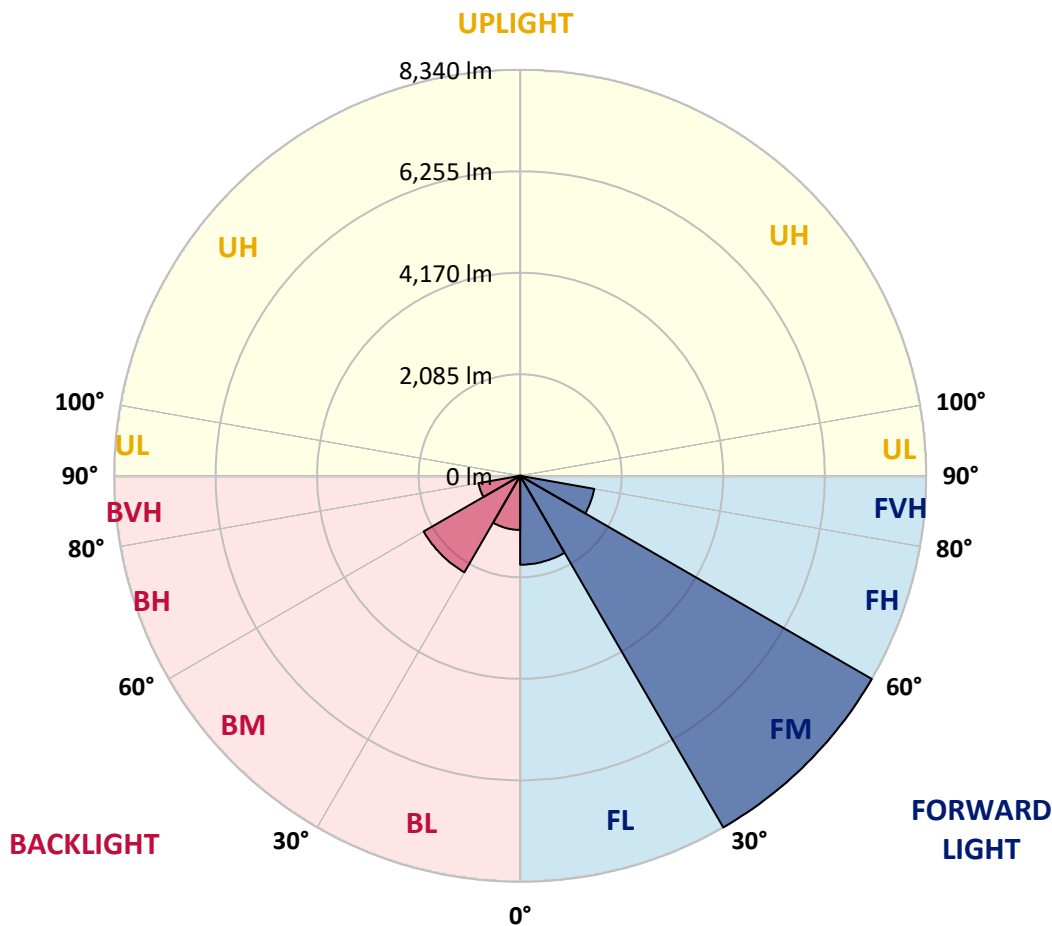
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1825.6	11.4			
FM (30°-60°)	8339.6	51.9			
FH (60°-80°)	1542.6	9.6			G1/1800
FVH (80°-90°)	37.7	0.2			G1/100
BL (0°-30°)	1111.5	6.9	B3/2500		
BM (30°-60°)	2288.9	14.2	B2/2500		
BH (60°-80°)	869.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	49.9	0.3			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°	75°	76°	85°
0°	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8
2.5°	3386.2	3332.1	3327.9	3313.3	3321.7	3284.2	3244.6	3192.5	3138.4	3171.7	3092.6
5°	3623.6	3550.7	3579.9	3529.9	3536.2	3486.2	3405.0	3344.6	3277.9	3238.4	3182.1
7.5°	3706.9	3713.2	3734.0	3725.7	3684.0	3684.0	3629.9	3523.7	3407.0	3384.1	3290.4
10°	3819.4	3821.5	3798.6	3804.8	3863.1	3836.0	3788.1	3742.3	3592.4	3565.3	3398.7
12.5°	3858.9	3821.5	3858.9	3892.3	3961.0	3998.5	3988.1	3954.7	3794.4	3775.6	3532.0
15°	3865.2	3842.3	3873.5	3948.5	4008.9	4167.2	4246.3	4223.4	4011.0	4013.1	3681.9
17.5°	3836.0	3867.3	3879.8	3944.3	4083.9	4231.7	4460.8	4492.0	4317.1	4290.0	3871.4
20°	3875.6	3852.7	3869.4	3927.7	4113.0	4344.2	4644.1	4850.2	4604.5	4585.8	4067.2
22.5°	4027.6	3996.4	3992.2	4029.7	4163.0	4402.5	4837.7	5208.4	4954.4	4964.8	4310.9
25°	4146.3	4163.0	4148.4	4146.3	4229.6	4490.0	5093.9	5635.4	5429.2	5368.8	4598.3
27.5°	4350.4	4390.0	4360.8	4400.4	4381.7	4621.2	5277.2	6108.1	5941.5	5860.3	4858.6
30°	4633.7	4654.5	4627.4	4627.4	4571.2	4804.4	5443.8	6601.7	6532.9	6422.6	5164.7
32.5°	5006.4	5037.7	4983.5	4952.3	4944.0	5077.2	5743.6	7089.0	7205.6	7111.9	5570.8
35°	5500.0	5481.2	5416.7	5387.5	5275.1	5495.8	6189.3	7649.2	7955.3	7788.7	6062.3
37.5°	5935.2	5906.1	5901.9	5739.5	5766.6	5947.7	6568.3	8074.0	8682.1	8634.2	6580.8
40°	6341.3	6368.4	6412.1	6320.5	6278.9	6478.8	7009.8	8398.9	9246.5	9227.7	6980.7
42.5°	6776.6	6751.6	6828.7	6751.6	6689.1	6972.3	7488.8	8623.8	9742.1	9588.0	7399.3
45°	7407.6	7328.5	7355.5	7361.8	7316.0	7420.1	7686.7	8786.2	10089.9	10073.3	7705.4
47.5°	7934.5	7936.6	7890.8	7855.3	7715.8	7819.9	7907.4	8888.3	10489.8	10462.7	7824.1
50°	8130.2	8103.2	8236.5	8313.5	8321.8	8109.4	8080.3	8944.5	10700.1	10581.4	7942.8
52.5°	7426.3	7451.3	7661.7	8119.8	8384.3	8407.2	8282.3	9061.1	10785.5	10760.5	8038.6
55°	5976.9	6097.7	6443.4	6972.3	7599.2	8288.5	8500.9	9181.9	10831.3	10810.5	8463.4
56°	5254.3	5348.0	5797.8	6212.2	6999.4	7857.4	8363.5	9311.0	10866.7	10964.6	8563.4
57.5°	4229.6	4337.9	4660.7	5131.4	6060.2	7036.9	7984.5	9152.8	10729.3	10766.7	8636.3
60°	2644.8	2655.2	3042.6	3352.9	4006.8	4960.6	6093.5	7963.6	9929.6	9875.4	7757.5
62.5°	1734.8	1736.8	2088.8	2342.9	2640.7	2859.3	3586.1	5281.3	7326.4	7230.6	5522.9
65°	1218.3	1245.4	1518.2	1857.6	1978.4	1863.9	1841.0	2784.4	4092.2	3954.7	2967.6
67.5°	891.3	893.4	1135.0	1499.4	1674.4	1418.2	1151.6	1359.9	1620.2	1616.1	1374.5
70°	589.4	614.3	799.7	1120.4	1320.3	1139.2	941.3	972.5	1030.9	1030.9	1022.5
72.5°	343.6	366.5	489.4	710.1	741.4	712.2	745.5	833.0	870.5	868.4	858.0
75°	195.8	206.2	233.2	295.7	368.6	435.3	547.7	631.0	668.5	691.4	664.3
77.5°	114.5	120.8	137.4	168.7	191.6	235.3	297.8	356.1	406.1	399.8	404.0
80°	60.4	60.4	77.1	100.0	133.3	166.6	197.8	231.2	258.2	264.5	270.7
82.5°	35.4	37.5	50.0	72.9	95.8	118.7	152.0	174.9	199.9	202.0	206.2
85°	18.7	20.8	31.2	47.9	64.6	72.9	75.0	70.8	77.1	72.9	83.3
87.5°	6.2	6.2	10.4	8.3	8.3	10.4	12.5	12.5	16.7	16.7	16.7
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°	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8	3073.8
2.5°	3090.5	3090.5	3055.1	2988.4	2978.0	2951.0	2926.0	2923.9	2905.1	2888.5	2880.2
5°	3148.8	3084.2	3032.2	2971.8	2901.0	2867.7	2830.2	2788.5	2771.9	2788.5	2786.4
7.5°	3215.4	3161.3	3005.1	2892.7	2811.4	2778.1	2736.5	2692.7	2696.9	2696.9	2667.7
10°	3280.0	3207.1	2957.2	2813.5	2694.8	2669.8	2646.9	2663.6	2684.4	2688.6	2669.8
12.5°	3388.3	3223.8	2934.3	2734.4	2659.4	2605.3	2619.8	2665.7	2709.4	2696.9	2711.5
15°	3469.5	3238.4	2830.2	2653.2	2559.4	2584.4	2636.5	2667.7	2740.6	2732.3	2746.9
17.5°	3548.7	3246.7	2728.1	2544.9	2505.3	2574.0	2613.6	2703.1	2726.0	2776.0	2794.8
20°	3711.1	3263.3	2624.0	2478.2	2465.7	2544.9	2613.6	2655.2	2705.2	2749.0	2749.0
22.5°	3794.4	3255.0	2555.3	2390.8	2430.3	2480.3	2542.8	2613.6	2613.6	2655.2	2657.3
25°	3898.5	3221.7	2447.0	2349.1	2378.3	2426.2	2497.0	2472.0	2499.0	2499.0	2532.4
27.5°	4017.2	3150.9	2353.3	2274.1	2332.4	2384.5	2394.9	2378.3	2347.0	2342.9	2330.4
30°	4113.0	3063.4	2284.5	2249.1	2297.0	2326.2	2292.9	2257.5	2203.3	2199.2	2170.0
32.5°	4244.2	2955.1	2199.2	2186.7	2240.8	2242.9	2232.5	2178.3	2099.2	2065.9	2032.6
35°	4465.0	2892.7	2134.6	2153.3	2170.0	2163.8	2145.0	2086.7	2007.6	1993.0	1980.5
37.5°	4627.4	2846.8	2068.0	2090.9	2105.4	2113.8	2057.6	1993.0	1995.1	1965.9	1957.6
40°	4810.7	2817.7	2013.8	2024.2	2026.3	2053.4	1984.7	1953.4	1968.0	1949.3	1961.8
42.5°	5046.0	2826.0	1957.6	1949.3	1988.8	1978.4	1945.1	1903.4	1911.8	1855.5	1863.9
45°	5171.0	2882.2	1924.3	1886.8	1930.5	1928.4	1884.7	1845.1	1795.2	1686.9	1691.0
47.5°	5254.3	2896.8	1845.1	1820.1	1866.0	1893.0	1843.0	1751.4	1680.6	1603.6	1584.8
50°	5339.6	2923.9	1807.6	1755.6	1774.3	1838.9	1776.4	1688.9	1620.2	1551.5	1561.9
52.5°	5414.6	2976.0	1734.8	1657.7	1691.0	1761.8	1728.5	1622.3	1547.3	1491.1	1474.4
55°	5747.8	3092.6	1611.9	1511.9	1591.1	1680.6	1661.9	1532.8	1451.5	1422.4	1418.2
56°	5799.9	3096.7	1547.3	1461.9	1534.8	1653.5	1630.6	1493.2	1420.3	1374.5	1376.6
57.5°	5808.2	3046.8	1455.7	1416.1	1478.6	1614.0	1584.8	1461.9	1362.0	1320.3	1307.8
60°	5110.6	2378.3	1341.2	1316.2	1389.1	1493.2	1482.8	1376.6	1264.1	1216.2	1239.1
62.5°	3484.1	1743.1	1251.6	1247.4	1284.9	1387.0	1359.9	1264.1	1170.4	1139.2	1124.6
65°	2028.4	1322.4	1164.1	1147.5	1178.7	1232.9	1251.6	1151.6	1053.8	1032.9	1026.7
67.5°	1197.5	1093.3	1051.7	1024.6	1014.2	1047.5	1062.1	1003.8	905.9	876.8	901.7
70°	1001.7	972.5	974.6	928.8	903.8	880.9	868.4	816.4	735.1	697.7	687.2
72.5°	864.3	851.8	843.4	801.8	778.9	726.8	672.7	620.6	560.2	529.0	531.0
75°	660.2	656.0	660.2	639.3	599.8	558.1	508.1	441.5	395.7	356.1	364.4
77.5°	393.6	406.1	412.3	404.0	387.4	349.9	318.6	274.9	231.2	199.9	195.8
80°	270.7	281.1	291.6	281.1	264.5	237.4	204.1	170.8	139.5	122.9	118.7
82.5°	206.2	216.6	222.8	212.4	191.6	162.4	139.5	116.6	91.6	75.0	70.8
85°	75.0	85.4	83.3	100.0	108.3	104.1	89.5	68.7	52.1	37.5	35.4
87.5°	20.8	18.7	20.8	20.8	20.8	18.7	16.7	16.7	16.7	10.4	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)