

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: P530496

Luminaire Tested: **GALN-SA5D-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27410 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

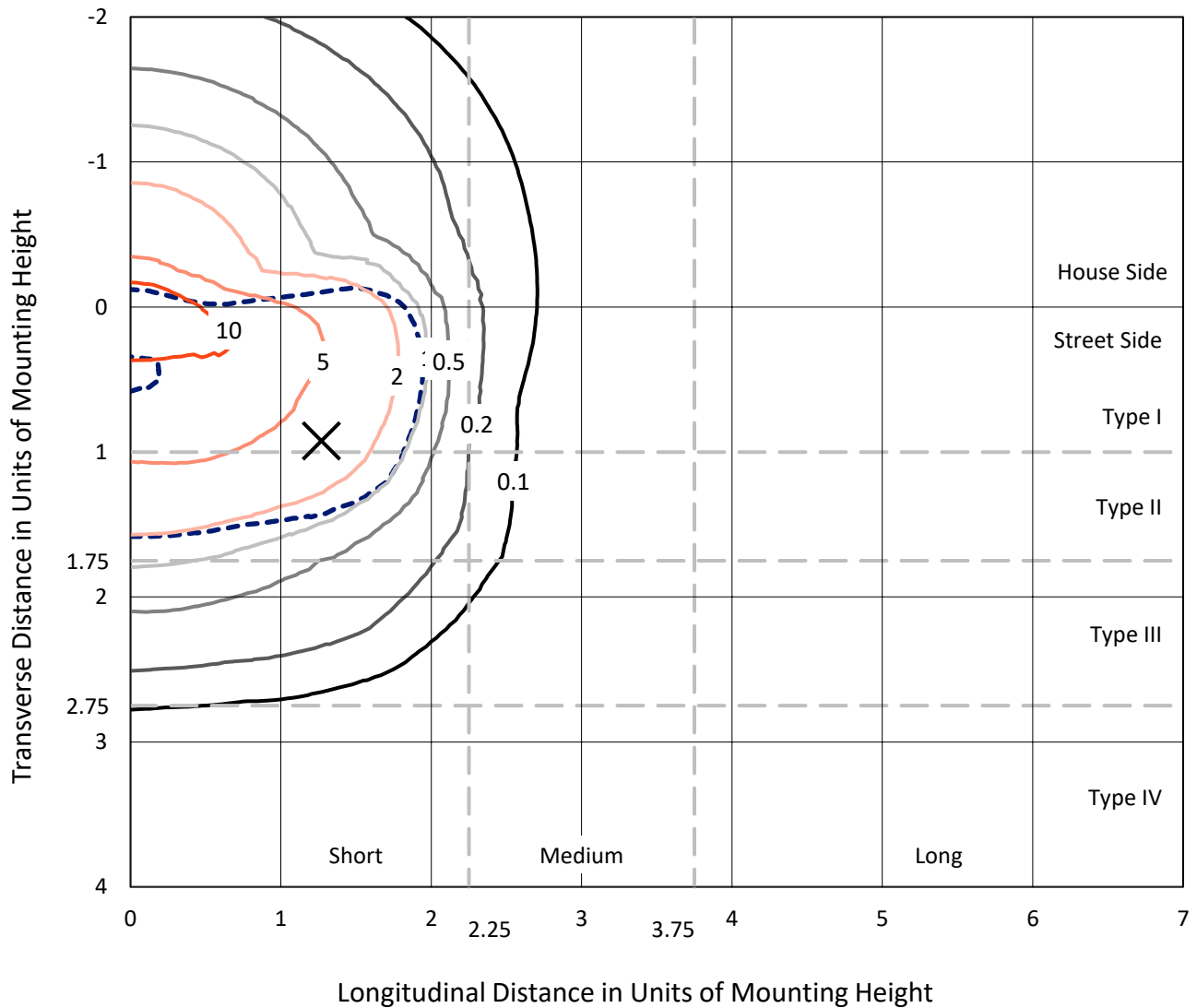
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

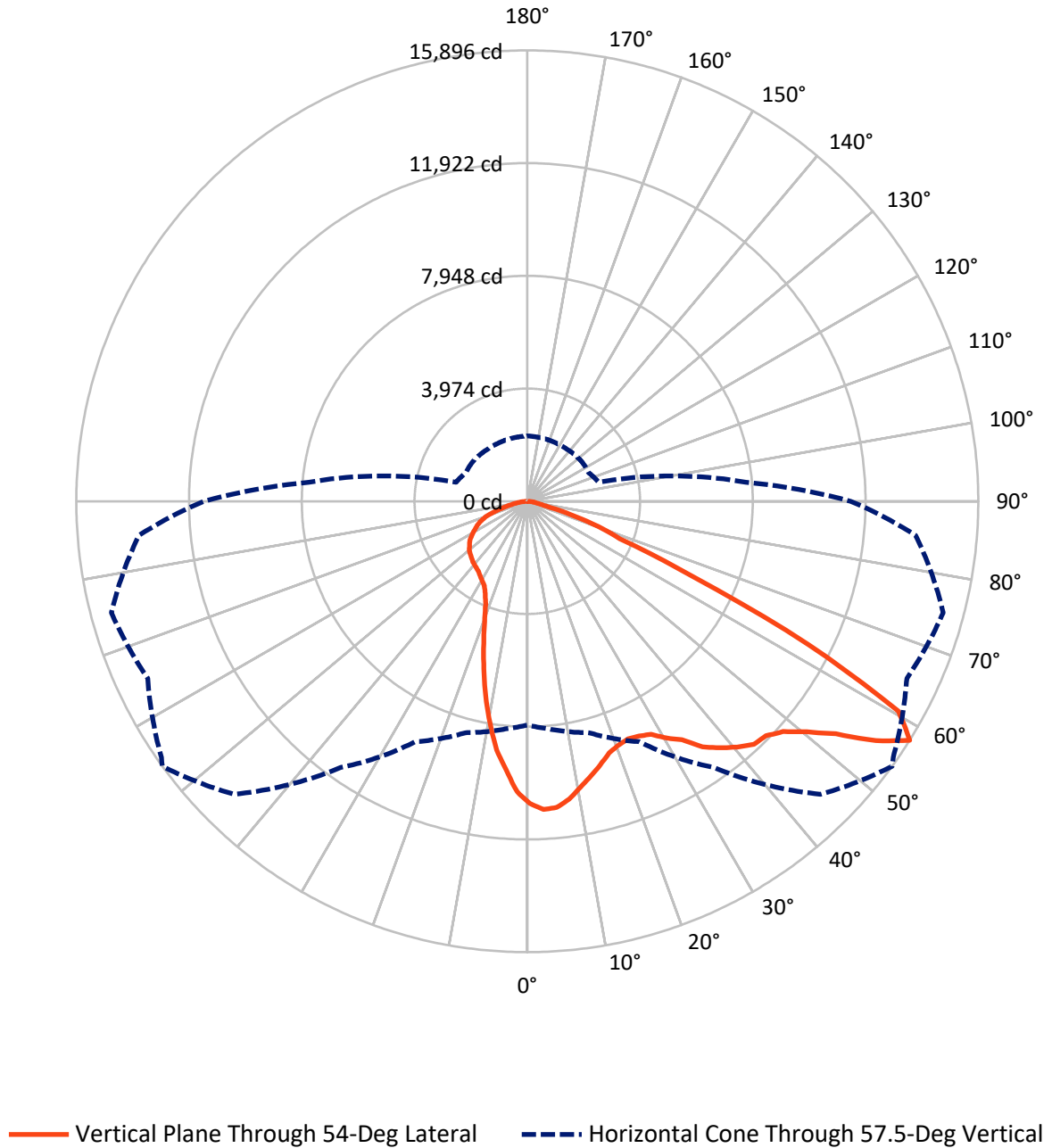
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7583.1	0.0	7583.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	19826.9	0.0	19826.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	27410.0	0.0	27410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	918.8	3.4
10°-20°	2127.4	7.8
20°-30°	2989.0	10.9
30°-40°	4178.6	15.2
40°-50°	5657.0	20.6
50°-60°	6890.5	25.1
60°-70°	3588.9	13.1
70°-80°	919.6	3.4
80°-90°	140.3	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°	27410.0	100.0
0°-180°	27410.0	100.0

Coefficient of Utilization



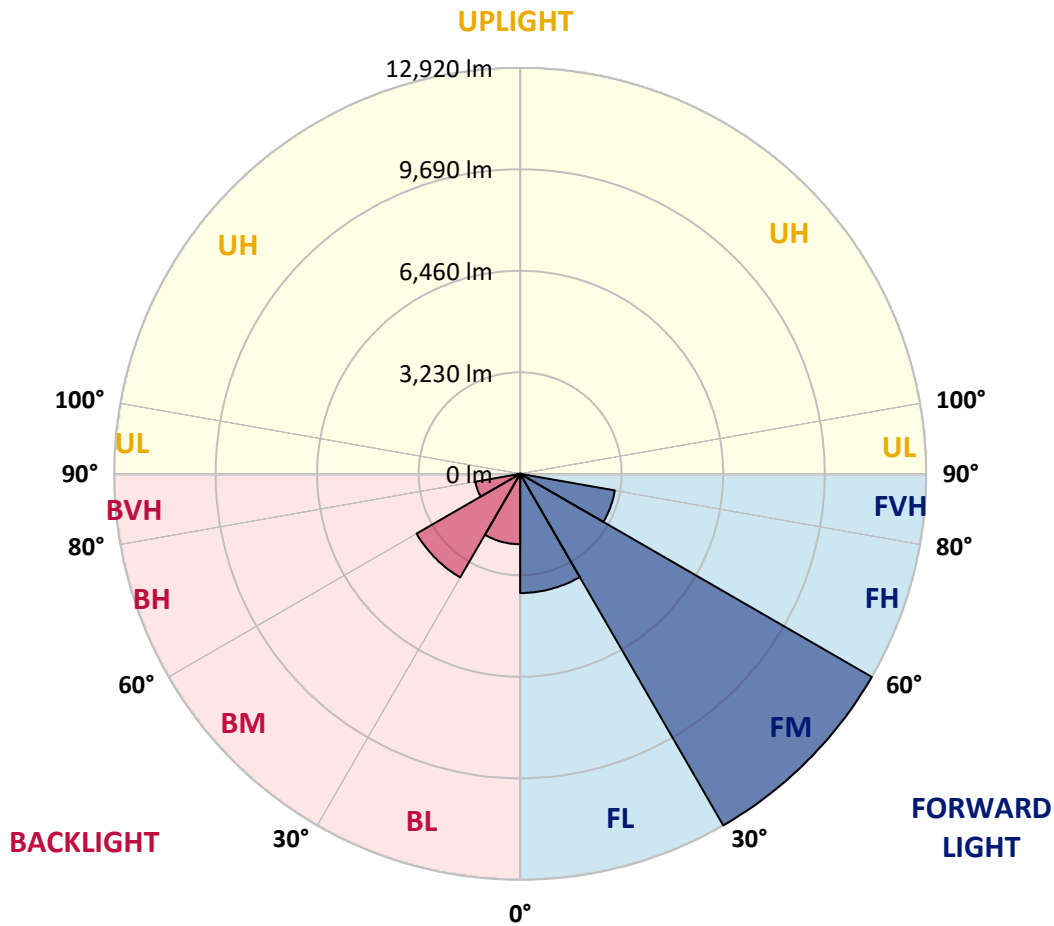
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3793.9	13.8			
FM (30°-60°)	12920.2	47.1			
FH (60°-80°)	3059.7	11.2			G2/5000
FVH (80°-90°)	53.0	0.2			G1/100
BL (0°-30°)	2241.2	8.2	B3/2500		
BM (30°-60°)	3805.9	13.9	B3/5000		
BH (60°-80°)	1448.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	87.3	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0
2.5°	10956.9	10914.7	10921.7	10978.1	10907.6	10879.4	10879.4	10742.0	10752.6	10657.5	10632.8
5°	10703.3	10604.6	10671.6	10756.1	10770.2	10798.4	10844.2	10809.0	10710.3	10608.2	10442.6
7.5°	10040.9	10129.0	10153.7	10213.6	10340.4	10456.7	10601.1	10502.5	10498.9	10396.8	10298.1
10°	9459.6	9406.8	9540.6	9628.7	9840.1	10033.9	10255.8	10245.3	10298.1	10181.9	10012.7
12.5°	8881.8	8839.5	8903.0	9103.8	9399.7	9681.6	9945.8	9847.2	10129.0	10107.9	9745.0
15°	8268.8	8300.5	8392.1	8578.8	8966.4	9304.6	9639.3	9642.8	9893.0	9977.5	9491.3
17.5°	7839.0	7803.7	7920.0	8198.3	8543.6	8948.8	9329.3	9406.8	9790.8	9840.1	9413.8
20°	7518.4	7567.7	7719.2	7860.1	8258.2	8747.9	9177.8	9205.9	9769.6	9903.5	9290.5
22.5°	7440.9	7412.7	7462.0	7691.0	8018.6	8550.6	9096.7	9202.4	9766.1	9882.4	9058.0
25°	7359.8	7451.4	7447.9	7676.9	7916.5	8392.1	9163.7	9279.9	9952.8	9991.6	9089.7
27.5°	7543.0	7532.5	7631.1	7648.7	7944.7	8434.4	9304.6	9392.7	10262.9	10231.2	9114.3
30°	7726.2	7673.4	7733.3	7941.1	8078.5	8677.5	9692.1	9685.1	10664.5	10643.4	9191.9
32.5°	7951.7	7927.0	7965.8	8149.0	8381.5	9001.6	10019.8	10227.7	11073.2	11207.1	9459.6
35°	7994.0	8096.2	8187.8	8434.4	8765.6	9526.6	10636.3	10809.0	11545.3	11964.6	9970.5
37.5°	8261.7	8300.5	8515.4	8952.3	9255.3	10227.7	11027.4	11136.6	11975.1	12450.8	10509.5
40°	8547.1	8592.9	8917.0	9375.1	9790.8	10685.7	11393.8	11429.0	12112.5	12824.2	10861.8
42.5°	8934.7	8976.9	9297.5	9871.8	10428.5	11076.7	11717.9	11756.7	12102.0	13254.0	11422.0
45°	9336.3	9438.5	9815.4	10467.2	10967.5	11534.7	11791.9	11950.5	12200.6	13638.0	11876.5
47.5°	9900.0	9995.1	10305.2	10942.8	11527.7	11936.4	12133.7	12288.7	12436.7	13972.7	12168.9
50°	10498.9	10516.6	10893.5	11471.3	11901.1	12390.9	12771.4	12824.2	12746.7	14360.3	12665.7
52.5°	10939.3	10995.7	11288.1	11851.8	12493.0	13095.5	13616.9	13673.3	13521.8	14504.7	12834.8
55°	10210.0	10178.3	10654.0	11404.4	12891.1	14145.4	14902.9	14945.1	14085.5	14952.2	13387.9
57.5°	7891.8	8043.3	8448.5	9353.9	11453.7	14610.4	15896.4	15744.9	14761.9	15177.7	13740.2
60°	5735.7	5700.4	5971.7	6577.7	8631.7	12591.7	15029.7	15184.7	14208.8	13680.3	11330.4
62.5°	4671.7	4622.4	4643.5	4664.6	5570.1	8356.9	11126.1	11122.5	10942.8	9833.1	7641.7
65°	3734.5	3850.8	3861.4	4019.9	4136.2	4992.3	6447.3	6792.6	5915.3	4851.4	3519.6
67.5°	2815.0	2772.7	2913.6	3477.3	3695.8	3604.2	3519.6	3558.4	2529.6	1825.0	1719.3
70°	1659.4	1641.8	1810.9	2423.9	3044.0	2864.3	2652.9	2656.4	1736.9	1275.4	1419.8
72.5°	909.0	905.4	940.7	1229.6	1729.9	1796.8	1592.5	1641.8	1035.8	1032.3	1109.8
75°	507.3	496.8	486.2	542.6	623.6	658.8	672.9	680.0	711.7	796.2	827.9
77.5°	186.7	179.7	179.7	207.9	264.2	331.2	419.3	426.3	503.8	577.8	609.5
80°	63.4	70.5	95.1	130.4	176.2	236.0	285.4	292.4	355.8	405.2	415.7
82.5°	38.8	42.3	63.4	91.6	126.8	165.6	211.4	214.9	264.2	295.9	310.0
85°	17.6	21.1	35.2	56.4	81.0	109.2	112.7	112.7	109.2	112.7	105.7
87.5°	0.0	0.0	7.0	7.0	7.0	10.6	14.1	10.6	17.6	21.1	21.1
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°	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0	10654.0
2.5°	10558.8	10520.1	10400.3	10294.6	10262.9	10122.0	9914.1	9938.8	9787.3	9857.7	9783.7
5°	10414.4	10284.0	9977.5	9847.2	9505.4	9350.4	9244.7	8980.5	8857.2	8832.5	8726.8
7.5°	10044.5	9963.4	9579.4	9227.1	8864.2	8554.2	8156.1	7884.8	7691.0	7638.2	7483.1
10°	9752.0	9572.4	9040.4	8504.8	7986.9	7447.9	6930.0	6524.8	6327.5	6098.5	6021.0
12.5°	9463.1	9191.9	8473.1	7786.1	7116.7	6436.8	5809.6	5316.4	4886.6	4784.4	4749.2
15°	9283.5	8811.4	7965.8	7137.9	6186.6	5298.8	4671.7	4347.5	4083.3	3974.1	4051.6
17.5°	9047.4	8497.8	7479.6	6376.9	5330.5	4513.1	3988.2	3787.4	3692.2	3702.8	3671.1
20°	8751.5	8201.9	6841.9	5686.3	4566.0	3914.2	3614.7	3540.7	3554.8	3579.5	3568.9
22.5°	8540.1	7842.5	6380.4	4981.7	3945.9	3583.0	3459.7	3406.9	3452.7	3473.8	3456.2
25°	8378.0	7536.0	5820.2	4358.1	3586.5	3396.3	3339.9	3336.4	3406.9	3435.1	3417.4
27.5°	8230.0	7250.6	5263.6	3882.5	3347.0	3251.9	3234.2	3276.5	3322.3	3350.5	3375.2
30°	8142.0	7032.2	4742.1	3484.4	3227.2	3181.4	3149.7	3188.4	3213.1	3241.3	3227.2
32.5°	8226.5	6877.2	4238.3	3258.9	3128.5	3082.7	3125.0	3100.4	3142.6	3167.3	3128.5
35°	8490.7	6739.8	3879.0	3139.1	3015.8	3033.4	3040.5	3029.9	3047.5	3026.4	3072.2
37.5°	8751.5	6690.4	3547.8	3036.9	2963.0	2963.0	2955.9	2934.8	2970.0	2963.0	2984.1
40°	9082.6	6722.1	3265.9	2927.7	2913.6	2906.6	2878.4	2874.9	2860.8	2864.3	2871.4
42.5°	9371.5	6792.6	3103.9	2857.3	2867.8	2881.9	2829.1	2786.8	2804.4	2769.2	2769.2
45°	9678.0	6856.0	2959.4	2807.9	2797.4	2793.8	2751.6	2726.9	2712.8	2716.3	2748.0
47.5°	10160.7	6947.6	2850.2	2741.0	2748.0	2695.2	2684.6	2652.9	2667.0	2688.2	2691.7
50°	10502.5	7141.4	2765.7	2663.5	2688.2	2652.9	2589.5	2575.4	2575.4	2610.6	2603.6
52.5°	10742.0	7412.7	2684.6	2578.9	2589.5	2561.3	2540.2	2508.5	2487.3	2536.7	2561.3
55°	11474.8	7863.6	2663.5	2508.5	2504.9	2476.8	2438.0	2406.3	2395.7	2402.8	2452.1
57.5°	11404.4	7722.7	2596.5	2385.2	2378.1	2339.4	2300.6	2290.0	2286.5	2293.6	2307.7
60°	9258.8	5704.0	2318.2	2244.2	2233.7	2226.6	2187.9	2145.6	2124.4	2145.6	2128.0
62.5°	6126.7	3819.1	2043.4	2075.1	2082.2	2064.6	2001.1	1958.9	1965.9	1990.6	1951.8
65°	3008.8	2244.2	1853.2	1937.7	1944.8	1895.4	1835.6	1786.2	1761.6	1782.7	1765.1
67.5°	1719.3	1715.8	1698.1	1786.2	1782.7	1733.4	1638.3	1596.0	1553.7	1560.7	1550.2
70°	1458.6	1486.8	1522.0	1574.8	1571.3	1514.9	1402.2	1370.5	1310.6	1303.6	1285.9
72.5°	1148.5	1197.9	1275.4	1314.1	1282.4	1212.0	1138.0	1085.1	1032.3	1000.6	1011.1
75°	852.6	923.1	965.3	990.0	940.7	901.9	842.0	778.6	715.2	687.0	676.4
77.5°	620.1	641.2	680.0	697.6	665.9	627.1	591.9	528.5	468.6	429.8	419.3
80°	433.3	447.4	475.6	475.6	475.6	458.0	412.2	348.8	310.0	274.8	267.8
82.5°	303.0	317.1	345.3	331.2	327.7	306.5	278.3	229.0	186.7	162.1	155.0
85°	105.7	116.3	140.9	169.1	179.7	176.2	158.5	126.8	98.6	81.0	74.0
87.5°	24.7	24.7	28.2	24.7	24.7	28.2	24.7	24.7	24.7	17.6	14.1
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)