

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: P456101

Luminaire Tested: **GALN-SA7B-750-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-750-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40558 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

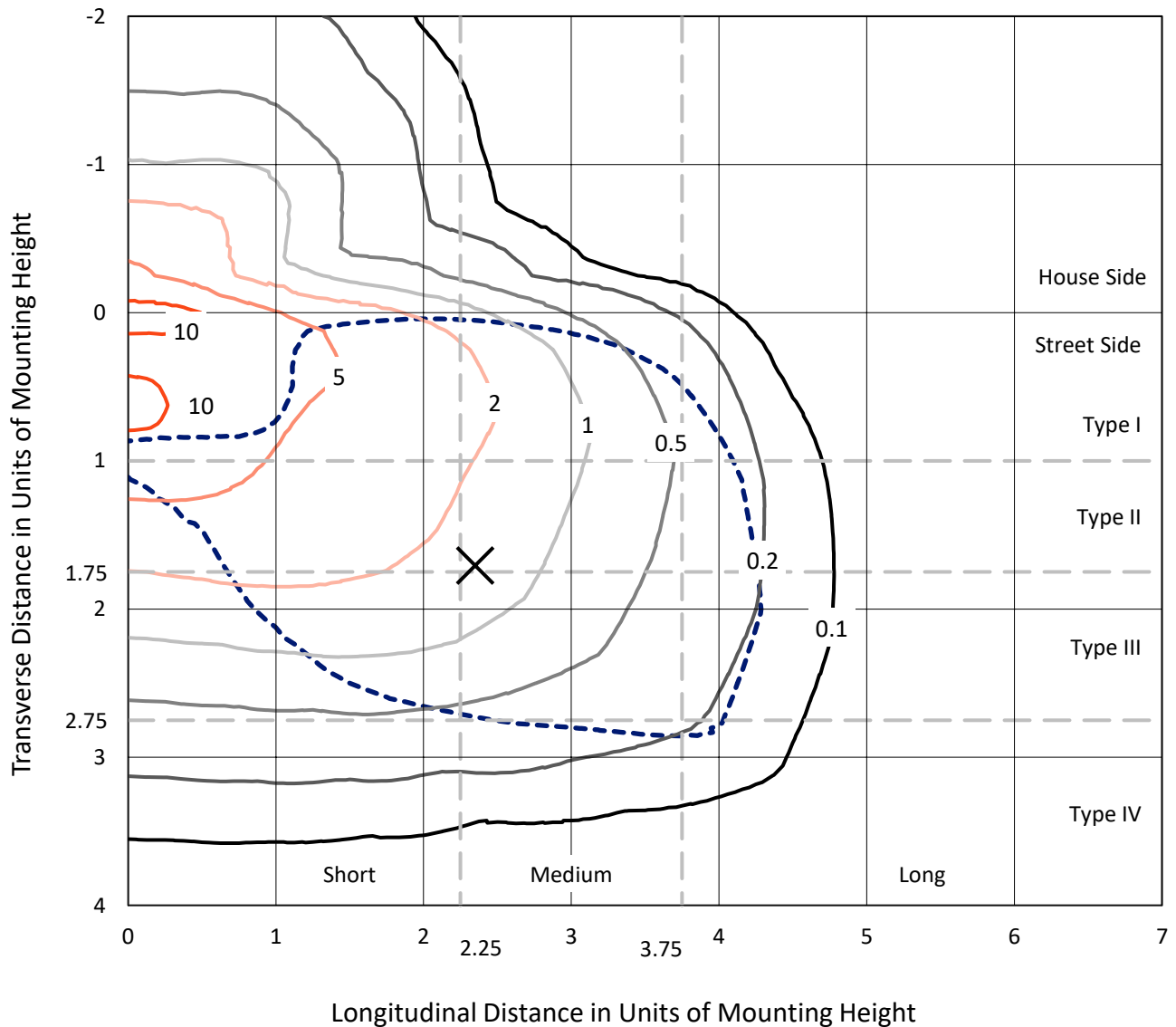
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456101  
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### Iso-Footcandle Lines of Horizontal Illumination

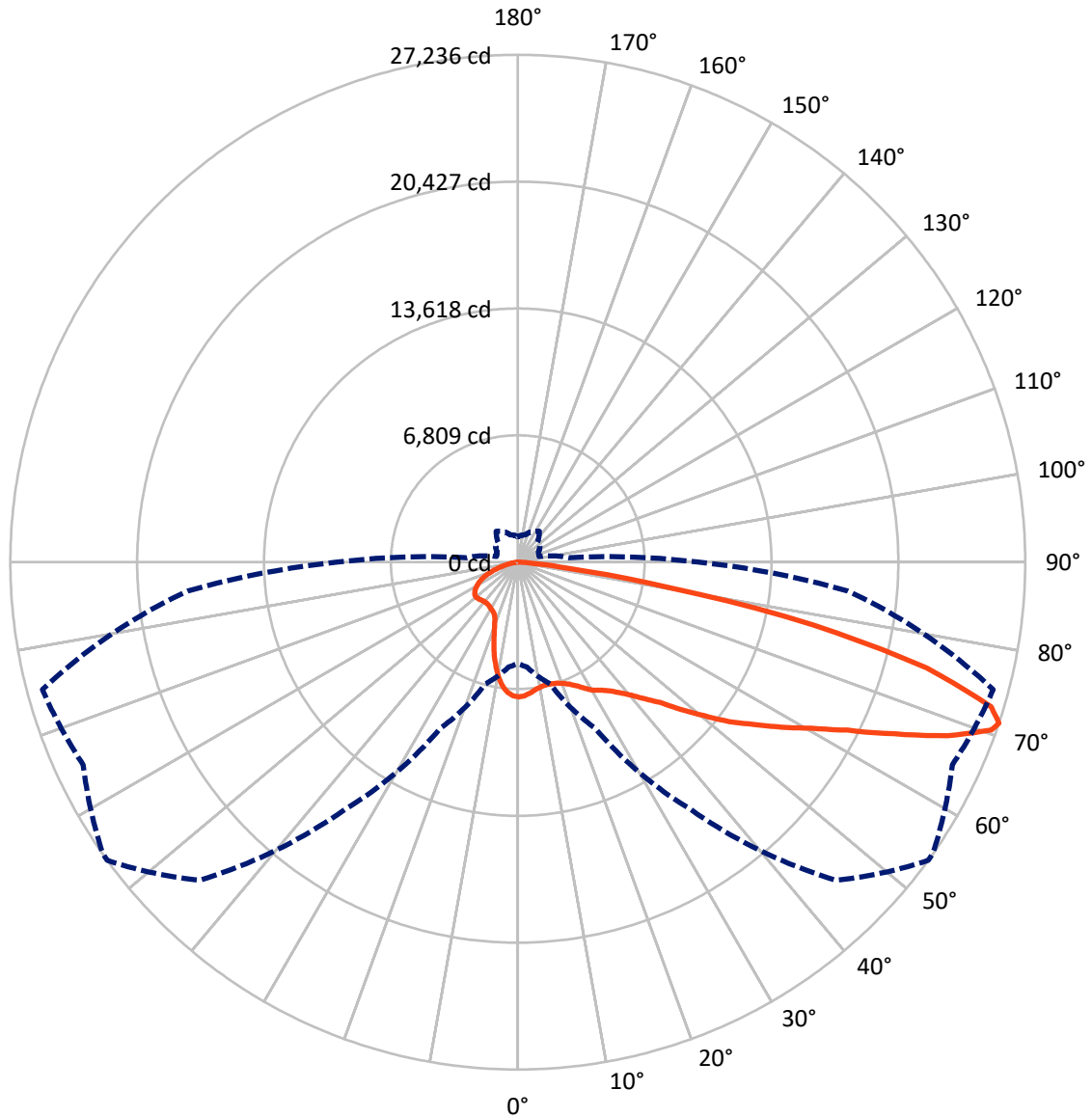
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P456101  
CATALOG NUMBER: GALN-SA7B-750-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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CATALOG NUMBER: GALN-SA7B-750-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7322.5	0.0	7322.5
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	33235.5	0.0	33235.5
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	40558.0	0.0	40558.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	644.9	1.6
10°-20°	1702.7	4.2
20°-30°	2835.1	7.0
30°-40°	4192.2	10.3
40°-50°	5904.9	14.6
50°-60°	7906.9	19.5
60°-70°	9966.0	24.6
70°-80°	6806.7	16.8
80°-90°	598.6	1.5
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°	40558.0	100.0
0°-180°	40558.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456101

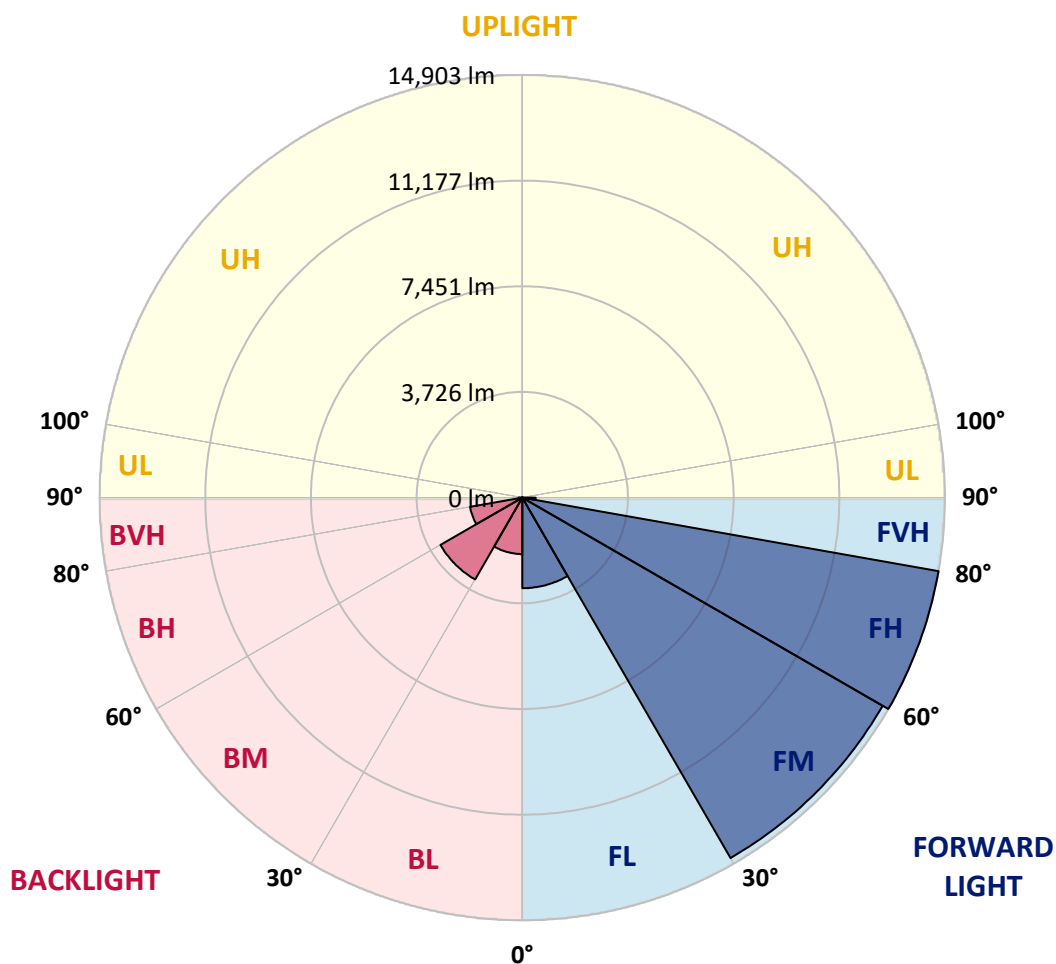
CATALOG NUMBER: GALN-SA7B-750-U-T3R

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3192.6	7.9			
FM	(30°-60°)	14672.4	36.2			
FH	(60°-80°)	14902.6	36.7			G5
FVH	(80°-90°)	467.9	1.2			G3/500
BL	(0°-30°)	1990.1	4.9	B3/2500		
BM	(30°-60°)	3331.5	8.2	B3/5000		
BH	(60°-80°)	1870.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	130.7	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Medium





REPORT NUMBER: P456101

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1
2.5°	6990.8	7023.6	7032.4	7054.3	7100.3	7137.6	7174.8	7170.4	7223.0	7244.9	7264.6
5°	6679.7	6688.5	6721.3	6765.1	6846.2	6949.2	7049.9	7052.1	7181.4	7284.3	7334.7
7.5°	6451.8	6480.3	6502.2	6548.2	6633.7	6745.4	6905.3	6918.5	7148.5	7352.3	7459.6
10°	6302.9	6335.7	6359.8	6416.8	6502.2	6627.1	6800.2	6824.3	7124.4	7459.6	7648.0
12.5°	6167.0	6199.9	6221.8	6296.3	6408.0	6561.4	6756.4	6784.8	7133.2	7584.5	7853.9
15°	6250.3	6276.6	6267.8	6289.7	6364.2	6539.5	6773.9	6802.4	7166.0	7705.0	8057.7
17.5°	6620.5	6642.4	6570.2	6486.9	6451.8	6581.1	6828.7	6859.3	7231.8	7829.8	8265.8
20°	7166.0	7225.2	7067.5	6881.2	6712.6	6730.1	6942.6	6975.4	7323.8	7954.7	8478.3
22.5°	7875.9	7919.7	7726.9	7420.2	7109.1	6949.2	7113.5	7133.2	7461.8	8116.8	8710.5
25°	8710.5	8736.8	8469.6	8075.2	7626.1	7323.8	7347.9	7382.9	7689.6	8300.9	8916.5
27.5°	9521.1	9604.4	9295.5	8813.5	8222.0	7718.1	7669.9	7691.8	7937.2	8403.8	9058.9
30°	10482.9	10476.3	10149.9	9591.2	8833.2	8147.5	7974.4	7970.1	8070.8	8454.2	9161.8
32.5°	11249.7	11339.5	11019.6	10410.6	9532.1	8592.2	8184.8	8176.0	8173.8	8541.9	9315.2
35°	12121.6	12134.7	11841.2	11227.7	10287.9	9150.9	8478.3	8434.5	8384.1	8730.3	9523.3
37.5°	12901.5	12962.8	12693.4	12005.5	11030.6	9731.4	8881.4	8852.9	8699.6	9056.7	9856.3
40°	13510.5	13556.5	13394.4	12739.4	11762.3	10358.0	9394.1	9341.5	9155.3	9591.2	10301.0
42.5°	13709.9	13804.1	13867.6	13545.6	12603.6	11100.7	10025.0	9959.3	9816.9	10401.8	10813.7
45°	13725.2	13874.2	14209.4	14224.7	13449.2	11990.1	10761.1	10715.1	10704.2	11440.3	11534.5
47.5°	13609.1	13760.3	14323.3	14627.8	14202.8	12888.4	11823.6	11751.3	11757.9	12724.1	12342.9
50°	13328.7	13508.4	14191.9	14886.4	14792.1	13821.6	12945.3	12921.2	13057.1	14189.7	13181.9
52.5°	12800.7	13017.6	14056.0	15048.5	15230.3	14625.7	14220.4	14152.4	14496.4	15780.2	14099.9
55°	11339.5	11665.9	13558.7	15138.3	15646.6	15394.6	15368.3	15491.0	15946.7	17515.3	15109.8
57.5°	10577.1	10822.5	12478.7	15153.6	16172.3	16288.5	16709.1	16739.8	17537.2	19357.7	16251.2
60°	10160.8	10377.7	11887.2	15052.9	16906.3	17394.8	18080.5	18190.0	19090.5	21353.5	17434.2
62.5°	9797.2	9983.4	11532.3	14704.5	17734.4	19035.7	19857.2	19909.8	20854.0	23557.5	18601.9
65°	8940.6	9153.1	10818.1	14356.2	18448.6	21086.3	22214.5	22153.2	22731.5	25459.1	19333.6
67.5°	7786.0	8055.5	9483.9	13153.4	18801.3	23327.4	24869.7	24793.1	24584.9	26705.6	19544.0
70°	6311.6	6456.2	7777.3	11074.4	17392.6	24503.9	26966.3	26885.3	25732.9	26869.9	18549.3
71°	5430.9	5656.6	6771.7	9836.6	16220.5	24144.6	27235.8	27213.9	25735.1	26416.4	17800.1
72.5°	4239.2	4377.2	5363.0	7621.7	13786.6	22102.8	26569.8	26653.0	25176.4	25156.7	16255.6
75°	2681.5	2742.9	3365.0	4486.7	7564.8	15653.1	22681.1	22906.8	22354.7	20591.1	12088.7
77.5°	1557.6	1636.5	2015.5	2644.3	3268.6	8495.8	16229.3	16474.7	15532.6	11337.3	4949.0
80°	907.0	994.6	1327.6	1535.7	1500.7	3152.5	8263.6	8682.1	6725.7	2863.4	1389.0
82.5°	503.9	563.0	933.3	935.5	799.6	1029.7	2600.5	2720.9	1919.1	1154.5	567.4
85°	365.9	414.1	602.5	545.5	383.4	442.5	904.8	948.6	775.5	486.4	184.0
87.5°	129.3	184.0	330.8	262.9	105.2	92.0	260.7	212.5	197.2	135.8	41.6
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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CATALOG NUMBER: GALN-SA7B-750-U-T3R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1	7236.1
2.5°	7275.6	7280.0	7258.1	7218.6	7179.2	7128.8	7071.8	7028.0	7008.3	7006.1	7003.9
5°	7354.4	7365.4	7282.2	7159.5	7023.6	6857.1	6714.7	6552.6	6511.0	6445.3	6465.0
7.5°	7481.5	7474.9	7310.6	7049.9	6732.3	6379.6	6081.6	5908.5	5728.9	5678.5	5680.7
10°	7663.3	7621.7	7310.6	6826.5	6296.3	5772.7	5356.5	5093.6	4951.2	4832.9	4789.0
12.5°	7856.1	7751.0	7240.5	6513.2	5735.5	5093.6	4646.6	4291.7	4199.7	4103.3	4105.5
15°	8040.2	7864.9	7102.5	6072.8	5130.8	4368.4	3934.6	3722.1	3693.7	3704.6	3702.4
17.5°	8206.7	7946.0	6892.2	5582.1	4425.4	3746.2	3516.2	3531.5	3608.2	3663.0	3669.6
20°	8375.4	7994.2	6578.9	4924.9	3759.4	3369.4	3378.2	3498.7	3614.8	3689.3	3700.2
22.5°	8535.3	8016.1	6210.9	4289.5	3277.4	3209.5	3338.7	3468.0	3581.9	3654.2	3665.2
25°	8640.4	7965.7	5689.5	3625.7	3040.8	3152.5	3288.4	3397.9	3494.3	3568.8	3586.3
27.5°	8668.9	7803.6	5043.2	3089.0	2931.3	3097.8	3222.6	3303.7	3378.2	3448.3	3461.4
30°	8653.6	7564.8	4333.4	2773.5	2867.7	3034.2	3130.6	3189.8	3279.6	3334.4	3345.3
32.5°	8629.5	7286.5	3592.9	2604.8	2815.2	2975.1	3032.0	3084.6	3082.4	3060.5	3075.9
35°	8638.2	6953.5	2992.6	2504.1	2769.1	2931.3	2979.5	2913.7	2725.3	2716.6	2707.8
37.5°	8684.3	6624.9	2556.6	2434.0	2745.0	2924.7	2951.0	2648.7	2482.2	2405.5	2385.8
40°	8802.6	6241.5	2269.6	2381.4	2742.9	2975.1	2821.7	2515.0	2195.2	2046.2	2035.2
42.5°	8960.3	5864.7	2094.4	2348.5	2769.1	3051.8	2769.1	2326.6	1978.3	1890.6	1877.5
45°	9194.7	5433.1	1998.0	2333.2	2808.6	3080.2	2751.6	2188.6	1890.6	1820.5	1820.5
47.5°	9459.8	5021.3	1945.4	2322.2	2859.0	3060.5	2596.1	2144.8	1849.0	1857.8	1899.4
50°	9722.7	4664.2	1906.0	2298.1	2902.8	3049.6	2532.5	2142.6	1860.0	1971.7	2046.2
52.5°	10027.2	4412.2	1857.8	2258.7	2902.8	2979.5	2512.8	2186.4	1890.6	1923.5	1956.4
55°	10395.3	4333.4	1796.4	2173.3	2850.2	2804.2	2501.9	2249.9	1912.6	1835.9	1849.0
57.5°	10881.6	4460.4	1737.3	2065.9	2729.7	2622.4	2497.5	2267.5	1862.2	1798.6	1785.5
60°	11446.8	4712.4	1719.8	1956.4	2565.4	2466.8	2471.2	2217.1	1792.1	1726.3	1737.3
62.5°	11843.4	4863.5	1708.8	1873.1	2385.8	2295.9	2407.7	2155.7	1761.4	1704.4	1715.4
65°	11843.4	4679.5	1608.0	1746.1	2153.5	2090.0	2331.0	2079.1	1722.0	1656.2	1645.3
67.5°	11394.2	4142.8	1454.7	1555.5	1897.2	1855.6	2223.6	1987.0	1662.8	1612.4	1586.1
70°	10224.4	3141.6	1261.9	1332.0	1573.0	1610.2	2085.6	1862.2	1564.2	1502.9	1463.4
71°	9709.5	2736.3	1180.8	1218.1	1448.1	1502.9	2019.9	1809.6	1520.4	1432.8	1362.7
72.5°	8717.1	2304.7	1058.1	1073.5	1237.8	1336.4	1881.9	1708.8	1437.2	1312.3	1233.4
75°	6622.7	1682.5	852.2	843.5	915.7	1060.3	1592.7	1522.6	1259.7	1091.0	1045.0
77.5°	2861.2	915.7	637.5	644.1	622.2	804.0	1253.1	1307.9	1080.1	887.3	845.6
80°	867.5	528.0	436.0	444.7	416.2	538.9	882.9	1025.3	867.5	690.1	633.1
82.5°	444.7	315.5	297.9	293.6	265.1	304.5	534.6	701.0	620.0	431.6	381.2
85°	192.8	168.7	146.8	142.4	124.9	109.5	190.6	350.5	328.6	241.0	230.0
87.5°	48.2	43.8	28.5	26.3	15.3	2.2	0.0	0.0	0.0	0.0	0.0
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)