

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: P651530

Luminaire Tested: **GALN-SA7D-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651530
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45572.9 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

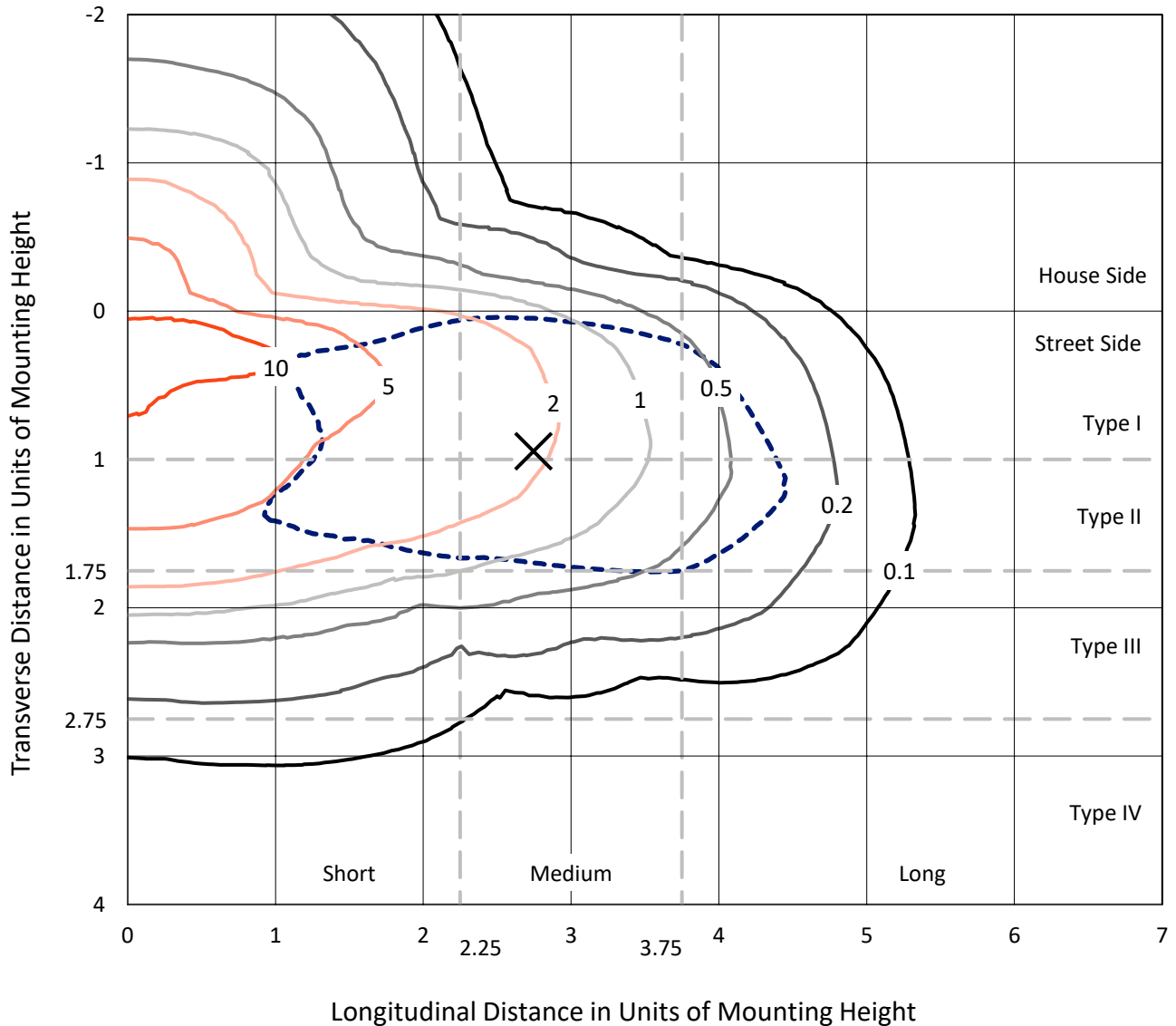
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

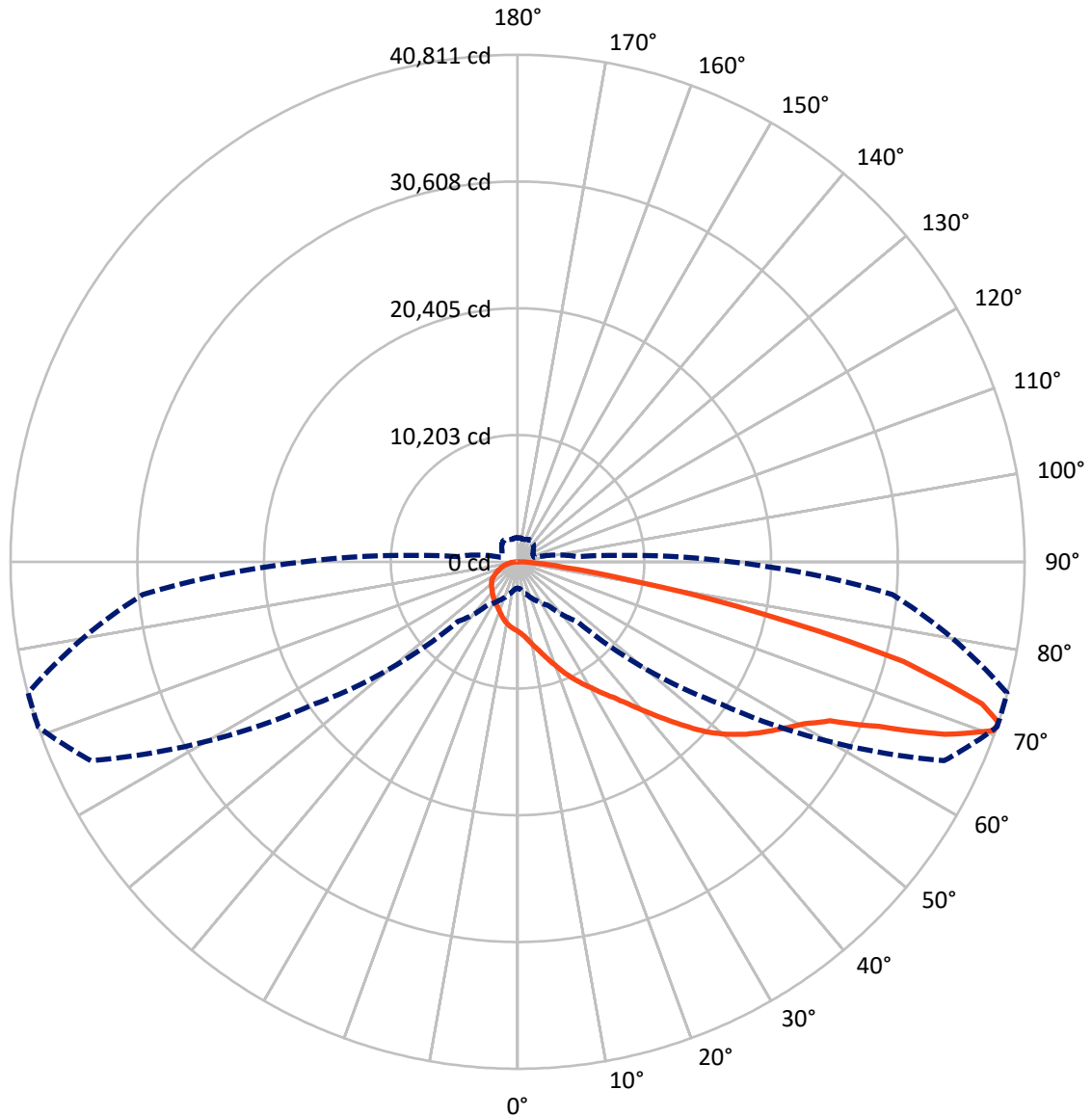
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8196.2	0.0	8196.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	37376.8	0.0	37376.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	45572.9	0.0	45572.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	1.2
10°-20°	1824.6	4.0
20°-30°	3188.6	7.0
30°-40°	4742.6	10.4
40°-50°	6987.6	15.3
50°-60°	9782.8	21.5
60°-70°	10941.7	24.0
70°-80°	6683.6	14.7
80°-90°	859.8	1.9
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°	45572.9	100.0
0°-180°	45572.9	100.0

Coefficient of Utilization

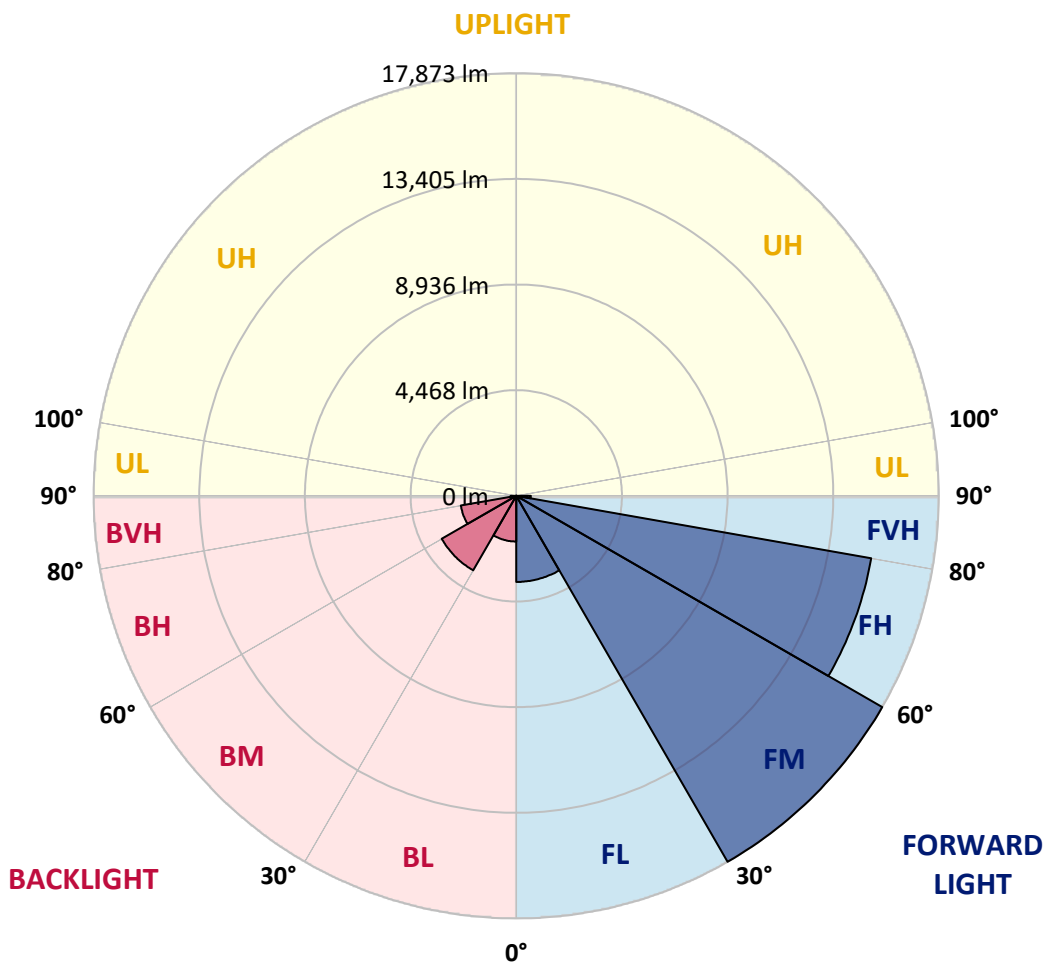


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3641.3	8.0			
FM (30°-60°)	17872.8	39.2			
FH (60°-80°)	15244.0	33.4			G5
FVH (80°-90°)	618.6	1.4			G4/750
BL (0°-30°)	1933.5	4.2	B3/2500		
BM (30°-60°)	3640.2	8.0	B3/5000		
BH (60°-80°)	2381.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	241.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2
2.5°	6209.4	6179.3	6181.8	6139.2	6084.1	6024.0	5938.8	5863.7	5803.6	5768.5	5665.8
5°	6880.6	6850.6	6813.0	6720.3	6680.2	6532.5	6344.6	6174.3	6044.0	5971.4	5766.0
7.5°	7424.2	7416.7	7406.6	7354.0	7251.4	7046.0	6885.7	6590.1	6397.2	6259.5	5908.8
10°	7759.8	7772.4	7779.8	7789.8	7747.3	7639.6	7419.1	7046.0	6800.5	6625.1	6094.1
12.5°	7930.1	7942.7	7985.2	8077.9	8135.5	8123.1	7942.7	7577.0	7238.8	7008.4	6292.0
15°	8035.3	8055.4	8130.5	8253.2	8446.2	8568.9	8481.2	8143.1	7772.4	7499.3	6527.5
17.5°	8150.6	8173.1	8255.8	8431.1	8684.1	8949.6	9044.8	8754.2	8351.0	8025.3	6790.5
20°	8215.7	8245.8	8363.5	8593.9	8889.5	9275.2	9590.8	9438.0	8997.2	8636.5	7093.6
22.5°	8320.9	8345.9	8446.2	8691.6	9044.8	9528.2	10136.8	10104.3	9716.1	9250.2	7426.7
25°	8606.5	8646.5	8696.6	8844.4	9185.1	9786.2	10590.2	10815.7	10412.4	9891.4	7732.2
27.5°	9144.9	9177.5	9175.1	9195.1	9387.9	10009.1	10983.5	11519.5	11103.7	10540.2	8027.8
30°	9758.6	9771.2	9781.2	9736.1	9778.6	10237.1	11344.2	12215.9	11800.1	11206.4	8285.8
32.5°	10505.1	10530.1	10445.0	10329.8	10294.7	10575.2	11642.2	12912.1	12624.1	11882.7	8541.3
35°	11386.7	11451.9	11279.1	11076.1	10933.3	11061.1	12043.0	13623.5	13468.2	12746.9	8879.4
37.5°	12393.6	12473.8	12313.5	11915.3	11712.4	11747.4	12566.5	14502.7	14535.3	13731.3	9383.0
40°	13217.7	13323.0	13327.9	12764.4	12456.3	12496.3	13230.3	15449.5	15822.7	14948.5	9976.5
42.5°	13761.3	13864.0	13971.7	13641.0	13317.9	13545.9	14004.2	16476.5	17270.4	16426.3	10805.7
45°	14357.4	14450.1	14510.2	14359.9	14179.6	14770.7	14938.5	17568.6	18813.4	18077.0	11712.4
47.5°	15048.8	15151.5	15209.1	15066.3	14998.6	15845.3	15945.4	18588.0	20461.6	19680.1	12714.2
50°	15970.5	16048.1	16018.1	15928.0	15912.9	16669.3	16912.3	19542.3	21821.7	21405.9	13753.8
52.5°	17117.7	17210.4	17242.9	17115.2	17057.6	17258.0	17691.3	20411.5	23059.0	22888.7	14863.4
55°	17811.5	17959.3	18455.2	18655.7	18793.4	18019.4	18530.4	21370.8	24168.7	24451.7	16055.7
57.5°	16922.3	17112.7	18222.3	19224.3	20519.2	19923.0	19720.2	22372.7	25278.3	25967.1	17483.4
60°	14753.2	14795.7	16226.0	18072.0	20677.0	22370.2	22202.4	23965.7	26480.6	27495.0	19364.4
62.5°	10234.5	10324.7	12015.5	14961.1	18728.2	23251.9	26425.5	26716.0	28203.9	29781.9	22122.3
65°	5277.6	5159.9	6700.3	9403.0	14119.5	21157.9	29847.0	31773.1	31941.0	33358.7	26004.6
67.5°	3248.7	3301.3	4022.7	5490.5	8348.4	15376.8	29488.8	37952.5	37068.3	37749.5	29609.0
70°	2439.7	2504.8	3000.8	3757.2	5089.7	8791.8	23715.3	39450.3	40685.2	40509.9	30706.2
71°	2121.6	2189.2	2705.2	3419.0	4275.6	6785.4	19980.6	37882.3	40810.5	40780.3	30292.8
72.5°	1808.5	1851.0	2254.3	2895.6	3604.4	4756.6	15011.2	33974.9	39069.6	40069.0	28817.5
75°	1420.2	1452.7	1633.1	2209.2	2838.0	2920.5	8055.4	25471.1	32088.8	33992.4	23990.8
77.5°	1157.2	1179.8	1272.4	1640.6	2189.2	2068.9	4225.6	16579.1	20103.3	22019.6	14132.0
80°	919.3	944.3	999.4	1112.1	1640.6	1475.3	2016.4	8401.0	9711.0	9691.0	5640.8
82.5°	713.8	721.4	786.5	816.5	1122.1	1047.0	1092.1	3556.8	3940.0	4070.3	2036.4
85°	450.9	473.4	696.3	626.2	671.3	613.7	538.5	1412.7	1740.8	1715.8	814.1
87.5°	137.8	145.2	235.5	265.5	298.1	268.0	197.9	415.8	508.5	551.0	202.8
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°	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2	5593.2
2.5°	5625.7	5598.2	5500.5	5420.3	5345.2	5262.6	5192.4	5172.4	5154.8	5147.3	5144.8
5°	5678.3	5595.7	5402.8	5245.0	5119.8	5004.5	4931.9	4899.3	4866.8	4866.8	4876.8
7.5°	5753.4	5603.2	5305.1	5069.7	4911.9	4804.2	4751.6	4746.6	4754.1	4761.6	4764.1
10°	5836.1	5598.2	5162.4	4869.3	4729.0	4678.9	4681.4	4724.0	4764.1	4794.1	4799.2
12.5°	5916.3	5568.1	4994.5	4681.4	4591.3	4601.3	4671.4	4766.6	4844.2	4886.8	4889.3
15°	6006.5	5520.6	4791.7	4503.6	4473.5	4551.2	4681.4	4826.8	4944.4	5014.5	5022.1
17.5°	6081.6	5440.4	4578.7	4330.7	4368.3	4511.1	4691.4	4879.3	5022.1	5109.7	5124.8
20°	6166.8	5337.7	4358.3	4165.5	4273.1	4466.0	4671.4	4874.3	5022.1	5107.2	5127.3
22.5°	6234.4	5192.4	4147.9	4030.2	4188.0	4411.0	4603.8	4766.6	4886.8	4931.9	4962.0
25°	6261.9	5009.6	3950.0	3920.0	4120.4	4320.7	4451.0	4543.7	4581.3	4576.2	4588.7
27.5°	6246.9	4799.2	3779.7	3832.4	4035.2	4180.4	4245.6	4238.1	4170.4	4107.9	4137.9
30°	6184.3	4548.7	3636.9	3742.1	3925.0	4005.2	3995.2	3897.4	3769.7	3652.0	3659.5
32.5°	6071.6	4278.2	3504.2	3639.4	3769.7	3804.8	3737.2	3609.4	3426.6	3273.8	3251.2
35°	5976.4	4020.1	3386.5	3521.7	3614.4	3596.9	3531.8	3366.4	3201.1	3065.9	3043.3
37.5°	5961.3	3799.7	3273.8	3389.0	3441.5	3416.6	3336.3	3196.1	3136.0	3033.3	3020.8
40°	6041.6	3644.5	3158.5	3248.7	3273.8	3253.7	3166.0	3085.9	3141.0	3116.0	3116.0
42.5°	6259.5	3561.8	3055.9	3108.4	3128.4	3143.5	3080.9	3013.2	3080.9	2965.7	2928.1
45°	6605.1	3564.3	2963.2	2970.7	3030.8	3083.4	3040.8	2940.6	2905.6	2675.1	2630.1
47.5°	7113.6	3649.4	2888.0	2840.4	2948.1	3035.8	2975.7	2830.4	2675.1	2522.3	2494.7
50°	7707.2	3802.2	2820.4	2705.2	2838.0	2975.7	2930.6	2760.2	2600.0	2507.3	2489.8
52.5°	8366.0	3995.2	2737.7	2554.9	2702.6	2948.1	2940.6	2750.2	2529.8	2467.2	2452.2
55°	9180.0	4185.5	2635.0	2379.5	2582.5	2925.6	2913.1	2667.6	2514.8	2469.7	2464.7
57.5°	10126.8	4461.0	2487.3	2201.7	2444.7	2832.9	2805.3	2617.5	2464.7	2432.2	2429.6
60°	11652.2	4889.3	2276.8	2038.9	2304.4	2670.1	2705.2	2532.3	2384.6	2377.0	2374.6
62.5°	13658.6	5490.5	2058.9	1871.1	2141.6	2459.7	2559.9	2417.1	2299.4	2337.0	2341.9
65°	16428.9	5996.4	1833.5	1728.3	1961.2	2256.8	2422.2	2309.4	2204.2	2276.8	2276.8
67.5°	18234.8	6006.5	1628.1	1580.5	1778.4	2086.5	2276.8	2181.6	2081.5	2204.2	2209.2
70°	17859.1	5262.6	1457.8	1425.2	1600.6	1903.6	2116.5	2041.4	1926.1	2036.4	1996.3
71°	17252.9	4849.3	1390.2	1365.1	1530.5	1816.0	2041.4	1978.8	1863.6	1936.2	1913.7
72.5°	16286.1	4210.6	1279.9	1285.0	1425.2	1705.7	1936.2	1871.1	1755.8	1796.0	1788.4
75°	13766.3	3677.0	1094.6	1117.1	1224.8	1517.9	1725.8	1675.7	1558.0	1558.0	1550.5
77.5°	8606.5	2569.9	909.2	921.7	1039.5	1300.0	1482.9	1440.2	1327.5	1289.9	1279.9
80°	3211.1	1327.5	711.3	726.4	799.0	1024.4	1227.4	1187.2	1072.0	1029.5	989.4
82.5°	1214.8	666.2	523.5	511.0	588.6	781.5	961.9	914.3	824.1	721.4	691.3
85°	458.3	330.6	320.6	310.6	345.7	463.4	596.1	586.1	491.0	418.3	410.7
87.5°	120.3	107.7	125.2	92.7	97.7	87.6	90.2	37.6	17.5	7.5	5.0
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)