

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: P456994

Luminaire Tested: **GALN-SA8B-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456994
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-SA8B-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46210 lumens
Efficiency: N/A
Efficacy: 142.2 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

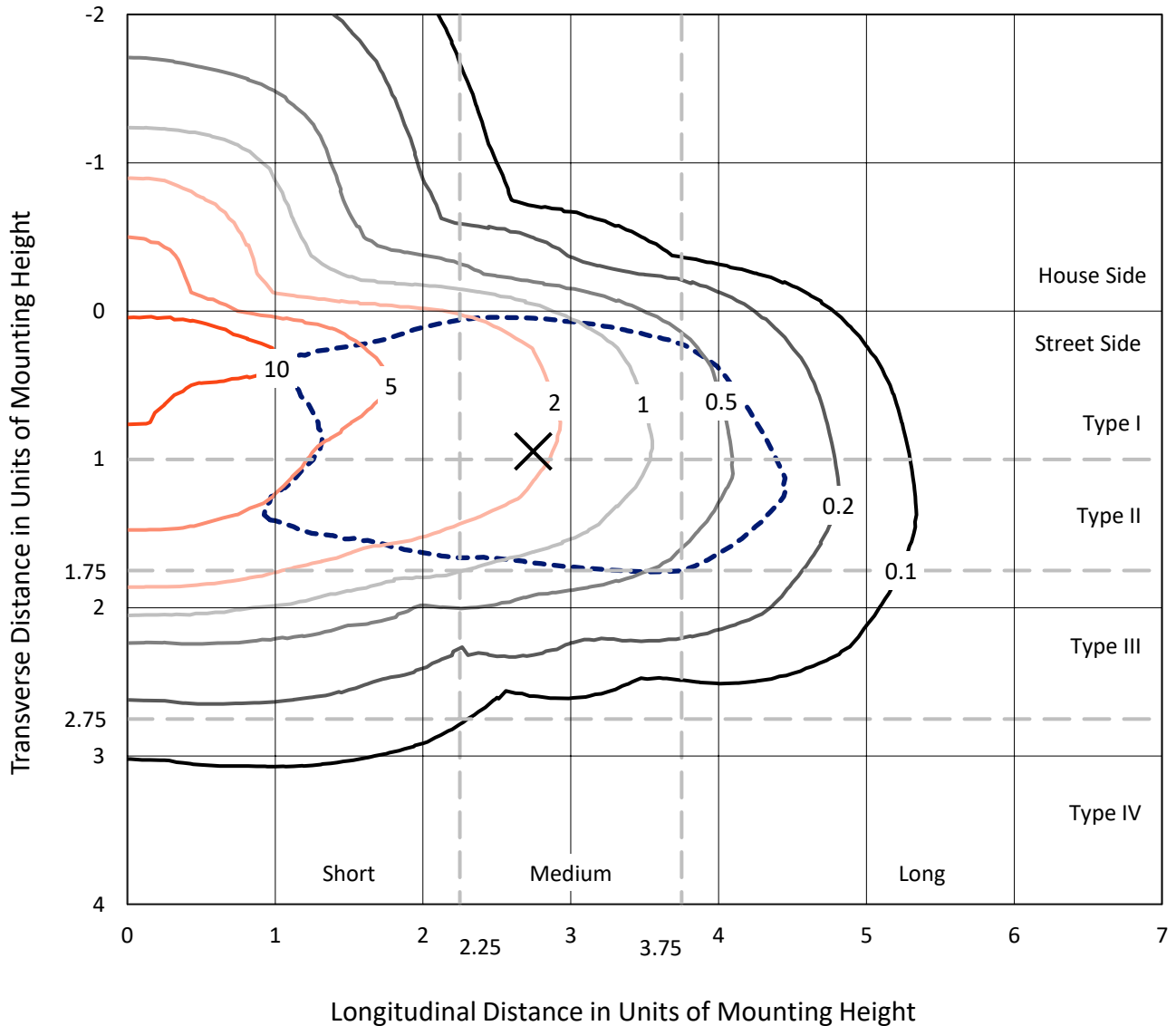
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

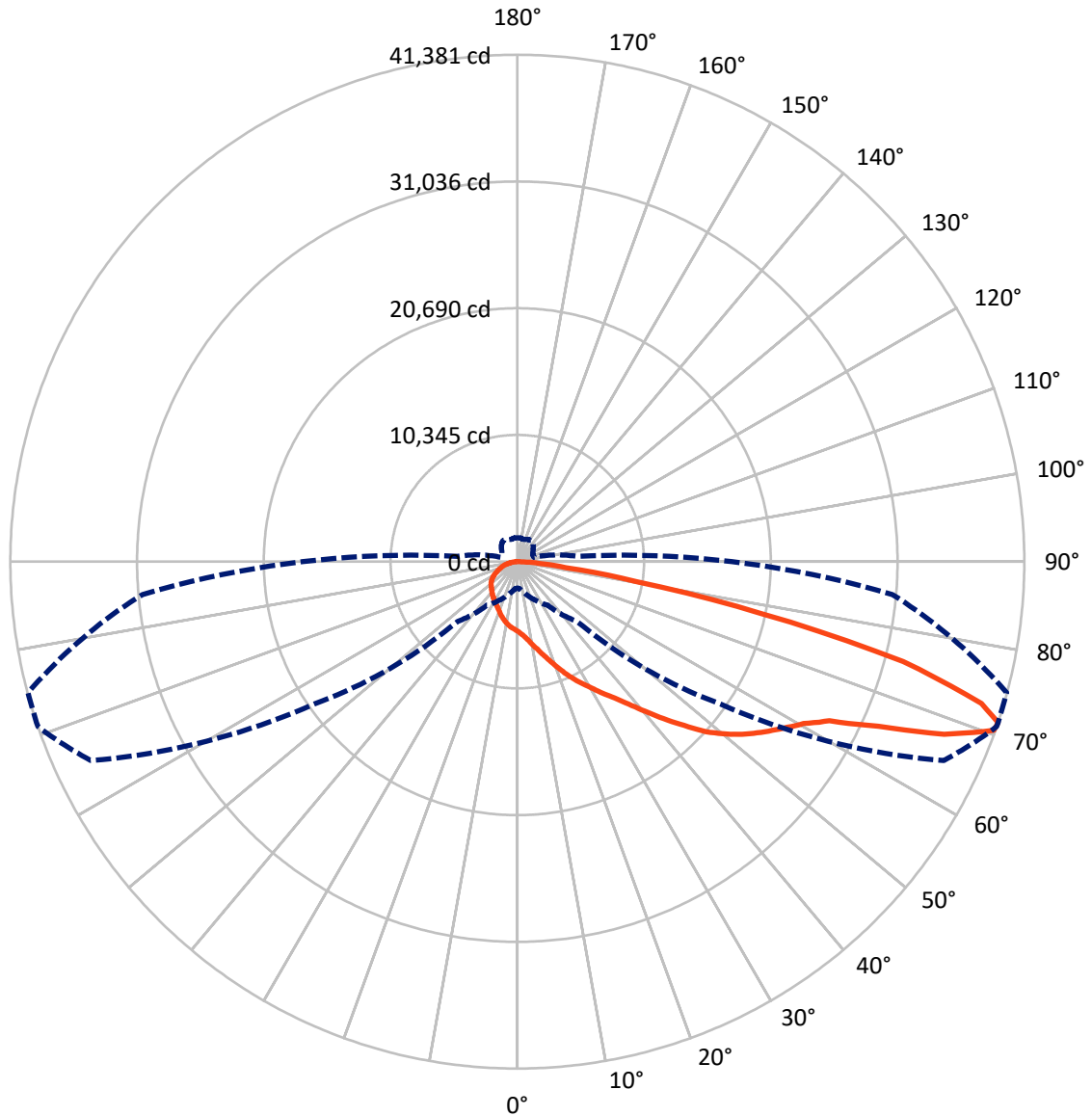
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	8310.8	0.0	8310.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	37899.3	0.0	37899.3
	% Fixture	82.0	0.0	82.0
Total	Lumens	46210.0	0.0	46210.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.4	1.2
10°-20°	1850.1	4.0
20°-30°	3233.2	7.0
30°-40°	4808.9	10.4
40°-50°	7085.3	15.3
50°-60°	9919.5	21.5
60°-70°	11094.7	24.0
70°-80°	6777.1	14.7
80°-90°	871.8	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°	46210.0	100.0
0°-180°	46210.0	100.0



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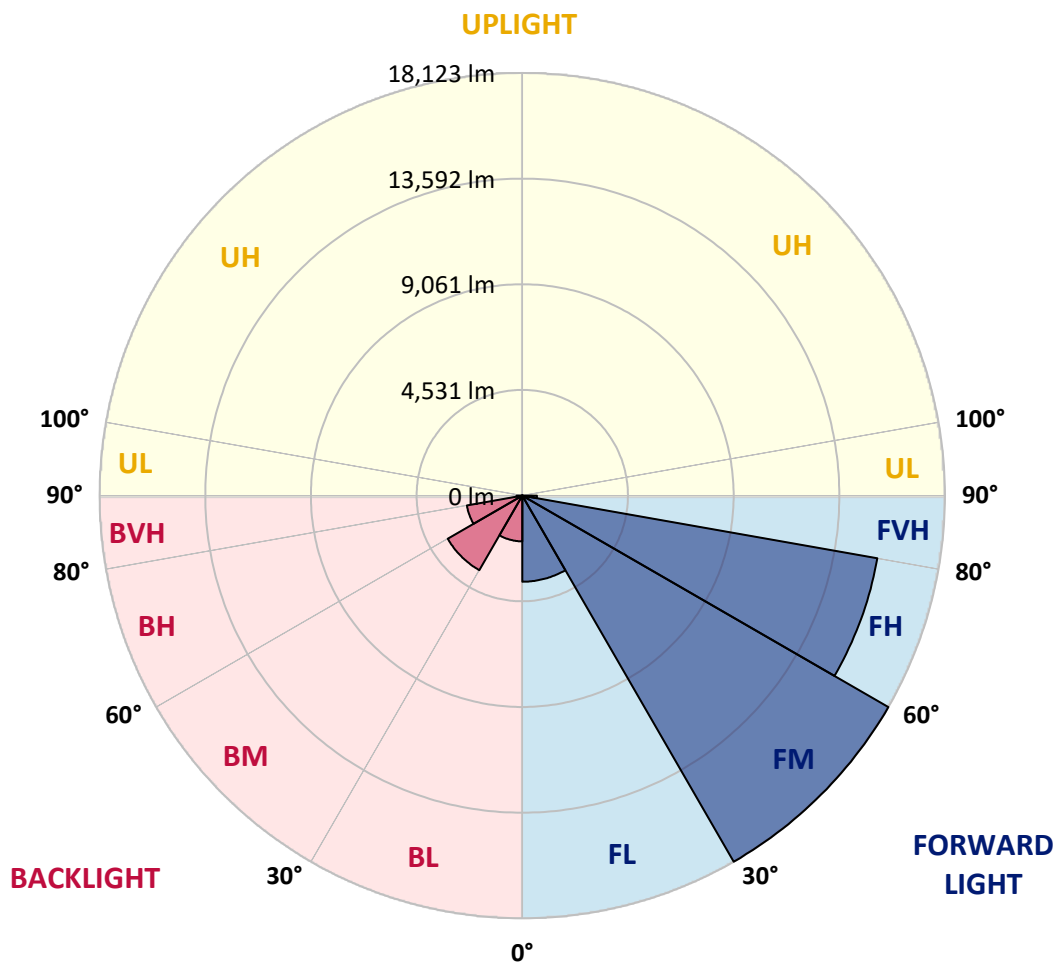
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3692.2	8.0			
FM	(30°-60°)	18122.6	39.2			
FH	(60°-80°)	15457.1	33.4			G5
FVH	(80°-90°)	627.3	1.4			G4/750
BL	(0°-30°)	1960.5	4.2	B3/2500		
BM	(30°-60°)	3691.1	8.0	B3/5000		
BH	(60°-80°)	2414.6	5.2	B3/2500		G3/2500
BVH	(80°-90°)	244.5	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°	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4
2.5°	6296.2	6265.7	6268.2	6225.0	6169.2	6108.2	6021.9	5945.7	5884.7	5849.2	5745.0
5°	6976.8	6946.3	6908.2	6814.3	6773.6	6623.8	6433.3	6260.6	6128.5	6054.9	5846.6
7.5°	7528.0	7520.3	7510.2	7456.8	7352.7	7144.4	6981.9	6682.2	6486.6	6347.0	5991.4
10°	7868.3	7881.0	7888.6	7898.8	7855.6	7746.4	7522.9	7144.4	6895.5	6717.8	6179.3
12.5°	8041.0	8053.7	8096.9	8190.8	8249.3	8236.6	8053.7	7682.9	7340.0	7106.4	6380.0
15°	8147.7	8168.0	8244.2	8368.6	8564.2	8688.6	8599.8	8256.9	7881.0	7604.2	6618.7
17.5°	8264.5	8287.4	8371.2	8549.0	8805.5	9074.7	9171.2	8876.6	8467.7	8137.5	6885.4
20°	8330.5	8361.0	8480.4	8714.0	9013.7	9404.9	9724.9	9570.0	9122.9	8757.2	7192.7
22.5°	8437.2	8462.6	8564.2	8813.1	9171.2	9661.4	10278.6	10245.5	9851.9	9379.5	7530.5
25°	8726.7	8767.4	8818.2	8968.0	9313.4	9923.0	10738.3	10966.8	10557.9	10029.7	7840.4
27.5°	9272.8	9305.8	9303.3	9323.6	9519.2	10149.0	11137.0	11680.5	11258.9	10687.5	8140.0
30°	9895.0	9907.7	9917.9	9872.2	9915.4	10380.1	11502.7	12386.6	11965.0	11363.1	8401.6
32.5°	10651.9	10677.3	10591.0	10474.1	10438.6	10723.0	11805.0	13092.7	12800.6	12048.8	8660.7
35°	11545.9	11612.0	11436.7	11231.0	11086.2	11215.7	12211.3	13814.0	13656.5	12925.0	9003.6
37.5°	12566.9	12648.2	12485.6	12081.8	11876.1	11911.6	12742.2	14705.4	14738.4	13923.2	9514.1
40°	13402.5	13509.2	13514.3	12942.8	12630.4	12671.0	13415.2	15665.5	16043.9	15157.5	10116.0
42.5°	13953.6	14057.8	14167.0	13831.7	13504.1	13735.2	14200.0	16706.8	17511.9	16656.0	10956.7
45°	14558.1	14652.1	14713.0	14560.7	14377.8	14977.2	15147.3	17814.1	19076.4	18329.7	11876.1
47.5°	15259.1	15363.2	15421.6	15276.9	15208.3	16066.8	16168.3	18847.8	20747.6	19955.2	12892.0
50°	16193.7	16272.5	16242.0	16150.6	16135.3	16902.3	17148.7	19815.5	22126.7	21705.1	13946.0
52.5°	17357.0	17450.9	17484.0	17354.4	17296.0	17499.2	17938.6	20696.8	23381.4	23208.7	15071.2
55°	18060.5	18210.3	18713.2	18916.4	19056.1	18271.3	18789.4	21669.5	24506.5	24793.5	16280.1
57.5°	17158.9	17351.9	18477.0	19492.9	20806.0	20201.5	19995.8	22685.5	25631.6	26330.1	17727.8
60°	14959.4	15002.6	16452.8	18324.6	20966.0	22682.9	22512.8	24300.8	26850.7	27879.3	19635.2
62.5°	10377.6	10469.0	12183.4	15170.2	18990.1	23576.9	26794.9	27089.5	28598.1	30198.2	22431.5
65°	5351.4	5232.0	6794.0	9534.4	14316.8	21453.7	30264.2	32217.3	32387.5	33825.0	26368.2
67.5°	3294.1	3347.5	4078.9	5567.2	8465.1	15591.8	29901.0	38483.0	37586.5	38277.3	30022.9
70°	2473.8	2539.8	3042.7	3809.7	5160.9	8914.7	24046.8	40001.8	41253.9	41076.1	31135.4
71°	2151.2	2219.8	2743.0	3466.8	4335.4	6880.3	20260.0	38411.9	41380.9	41350.4	30716.3
72.5°	1833.7	1876.9	2285.8	2936.0	3654.8	4823.1	15221.0	34449.8	39615.7	40629.1	29220.4
75°	1440.1	1473.1	1655.9	2240.1	2877.6	2961.4	8168.0	25827.2	32537.3	34467.6	24326.2
77.5°	1173.4	1196.2	1290.2	1663.6	2219.8	2097.9	4284.6	16810.9	20384.4	22327.4	14329.5
80°	932.1	957.5	1013.4	1127.7	1663.6	1495.9	2044.5	8518.5	9846.8	9826.5	5719.6
82.5°	723.8	731.5	797.5	828.0	1137.8	1061.6	1107.4	3606.5	3995.1	4127.2	2064.9
85°	457.2	480.0	706.1	634.9	680.7	622.3	546.1	1432.4	1765.2	1739.8	825.4
87.5°	139.7	147.3	238.7	269.2	302.2	271.8	200.6	421.6	515.6	558.8	205.7
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°	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4	5671.4
2.5°	5704.4	5676.4	5577.4	5496.1	5419.9	5336.1	5265.0	5244.7	5226.9	5219.3	5216.7
5°	5757.7	5673.9	5478.3	5318.3	5191.3	5074.5	5000.9	4967.8	4934.8	4934.8	4945.0
7.5°	5833.9	5681.5	5379.3	5140.5	4980.5	4871.3	4818.0	4812.9	4820.5	4828.2	4830.7
10°	5917.7	5676.4	5234.5	4937.4	4795.1	4744.3	4746.9	4790.1	4830.7	4861.2	4866.3
12.5°	5999.0	5646.0	5064.4	4746.9	4655.4	4665.6	4736.7	4833.2	4912.0	4955.1	4957.7
15°	6090.4	5597.7	4858.6	4566.6	4536.1	4614.8	4746.9	4894.2	5013.6	5084.7	5092.3
17.5°	6166.6	5516.4	4642.7	4391.3	4429.4	4574.2	4757.0	4947.5	5092.3	5181.2	5196.4
20°	6253.0	5412.3	4419.2	4223.7	4332.9	4528.5	4736.7	4942.4	5092.3	5178.6	5199.0
22.5°	6321.6	5265.0	4205.9	4086.5	4246.5	4472.6	4668.1	4833.2	4955.1	5000.9	5031.3
25°	6349.5	5079.6	4005.3	3974.8	4178.0	4381.1	4513.2	4607.2	4645.3	4640.2	4652.9
27.5°	6334.3	4866.3	3832.6	3885.9	4091.6	4238.9	4305.0	4297.3	4228.8	4165.3	4195.7
30°	6270.8	4612.3	3687.8	3794.5	3979.9	4061.1	4051.0	3951.9	3822.4	3703.0	3710.6
32.5°	6156.5	4338.0	3553.2	3690.3	3822.4	3858.0	3789.4	3659.8	3474.4	3319.5	3296.7
35°	6060.0	4076.4	3433.8	3571.0	3664.9	3647.1	3581.1	3413.5	3245.9	3108.7	3085.9
37.5°	6044.7	3852.9	3319.5	3436.3	3489.7	3464.3	3383.0	3240.8	3179.8	3075.7	3063.0
40°	6126.0	3695.4	3202.7	3294.1	3319.5	3299.2	3210.3	3129.0	3184.9	3159.5	3159.5
42.5°	6347.0	3611.6	3098.6	3151.9	3172.2	3187.4	3123.9	3055.4	3123.9	3007.1	2969.0
45°	6697.4	3614.1	3004.6	3012.2	3073.2	3126.5	3083.3	2981.7	2946.2	2712.5	2666.8
47.5°	7213.0	3700.5	2928.4	2880.1	2989.3	3078.2	3017.3	2870.0	2712.5	2557.6	2529.6
50°	7815.0	3855.4	2859.8	2743.0	2877.6	3017.3	2971.6	2798.9	2636.3	2542.3	2524.6
52.5°	8482.9	4051.0	2776.0	2590.6	2740.4	2989.3	2981.7	2788.7	2565.2	2501.7	2486.5
55°	9308.4	4244.0	2671.9	2412.8	2618.5	2966.5	2953.8	2704.9	2550.0	2504.2	2499.2
57.5°	10268.4	4523.4	2522.0	2232.5	2478.8	2872.5	2844.6	2654.1	2499.2	2466.1	2463.6
60°	11815.1	4957.7	2308.7	2067.4	2336.6	2707.4	2743.0	2567.7	2417.9	2410.3	2407.7
62.5°	13849.5	5567.2	2087.7	1897.2	2171.5	2494.1	2595.7	2450.9	2331.5	2369.6	2374.7
65°	16658.5	6080.3	1859.1	1752.5	1988.7	2288.4	2456.0	2341.7	2235.0	2308.7	2308.7
67.5°	18489.7	6090.4	1650.9	1602.6	1803.3	2115.7	2308.7	2212.2	2110.6	2235.0	2240.1
70°	18108.8	5336.1	1478.2	1445.1	1622.9	1930.2	2146.1	2069.9	1953.1	2064.9	2024.2
71°	17494.1	4917.0	1409.6	1384.2	1551.8	1841.4	2069.9	2006.4	1889.6	1963.3	1940.4
72.5°	16513.8	4269.4	1297.8	1302.9	1445.1	1729.6	1963.3	1897.2	1780.4	1821.0	1813.4
75°	13958.7	3728.4	1109.9	1132.7	1242.0	1539.1	1749.9	1699.1	1579.8	1579.8	1572.1
77.5°	8726.7	2605.8	921.9	934.6	1054.0	1318.2	1503.6	1460.4	1346.1	1308.0	1297.8
80°	3256.0	1346.1	721.3	736.5	810.2	1038.8	1244.5	1203.9	1087.0	1043.9	1003.2
82.5°	1231.8	675.6	530.8	518.1	596.9	792.4	975.3	927.0	835.6	731.5	701.0
85°	464.8	335.3	325.1	314.9	350.5	469.9	604.5	594.3	497.8	424.1	416.5
87.5°	121.9	109.2	127.0	94.0	99.1	88.9	91.4	38.1	17.8	7.6	5.1
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)