

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: P457690

Luminaire Tested: **GALN-SA9A-740-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457690
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-SA9A-740-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41694 lumens
Efficiency: N/A
Efficacy: 152.2 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

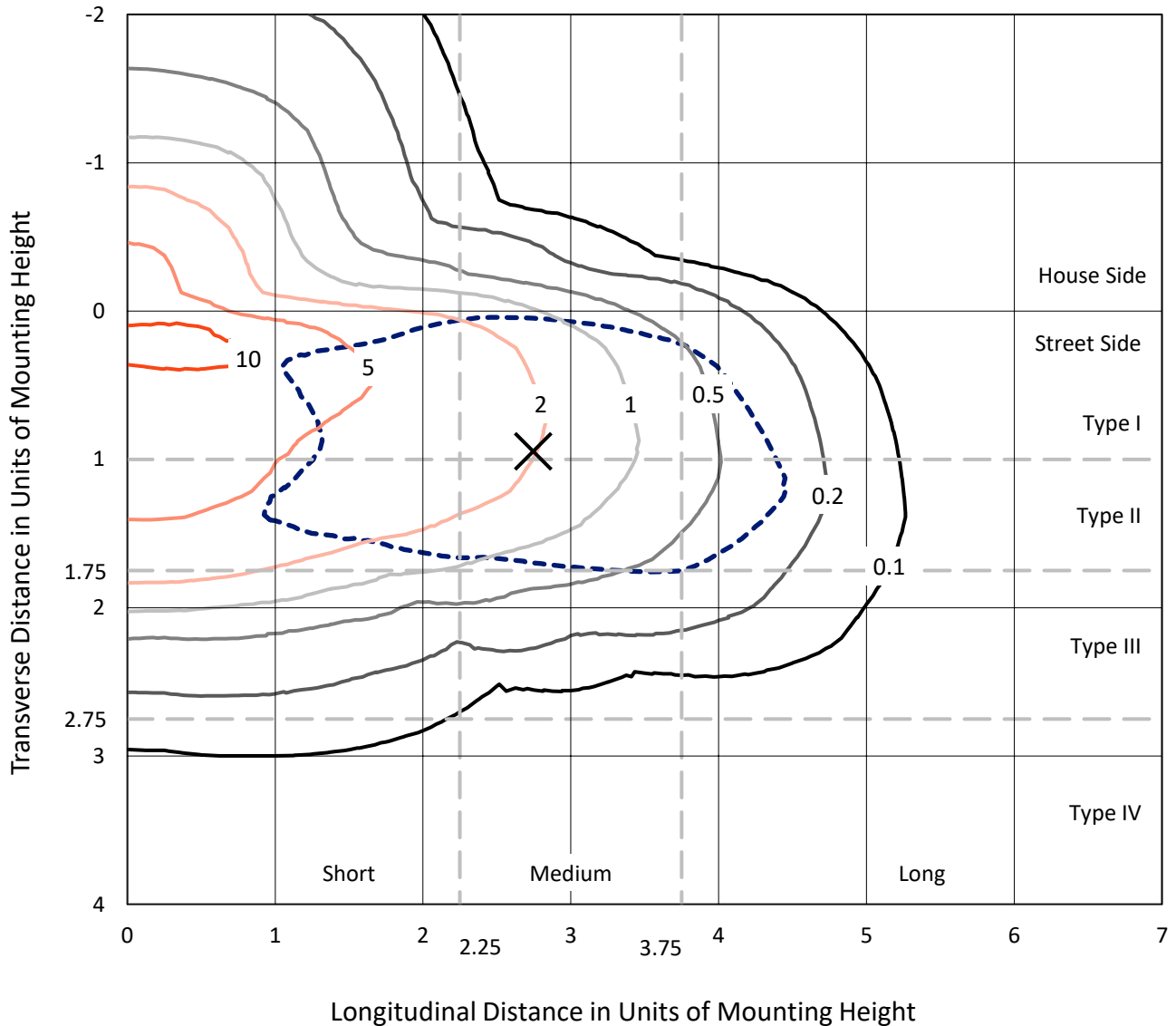
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

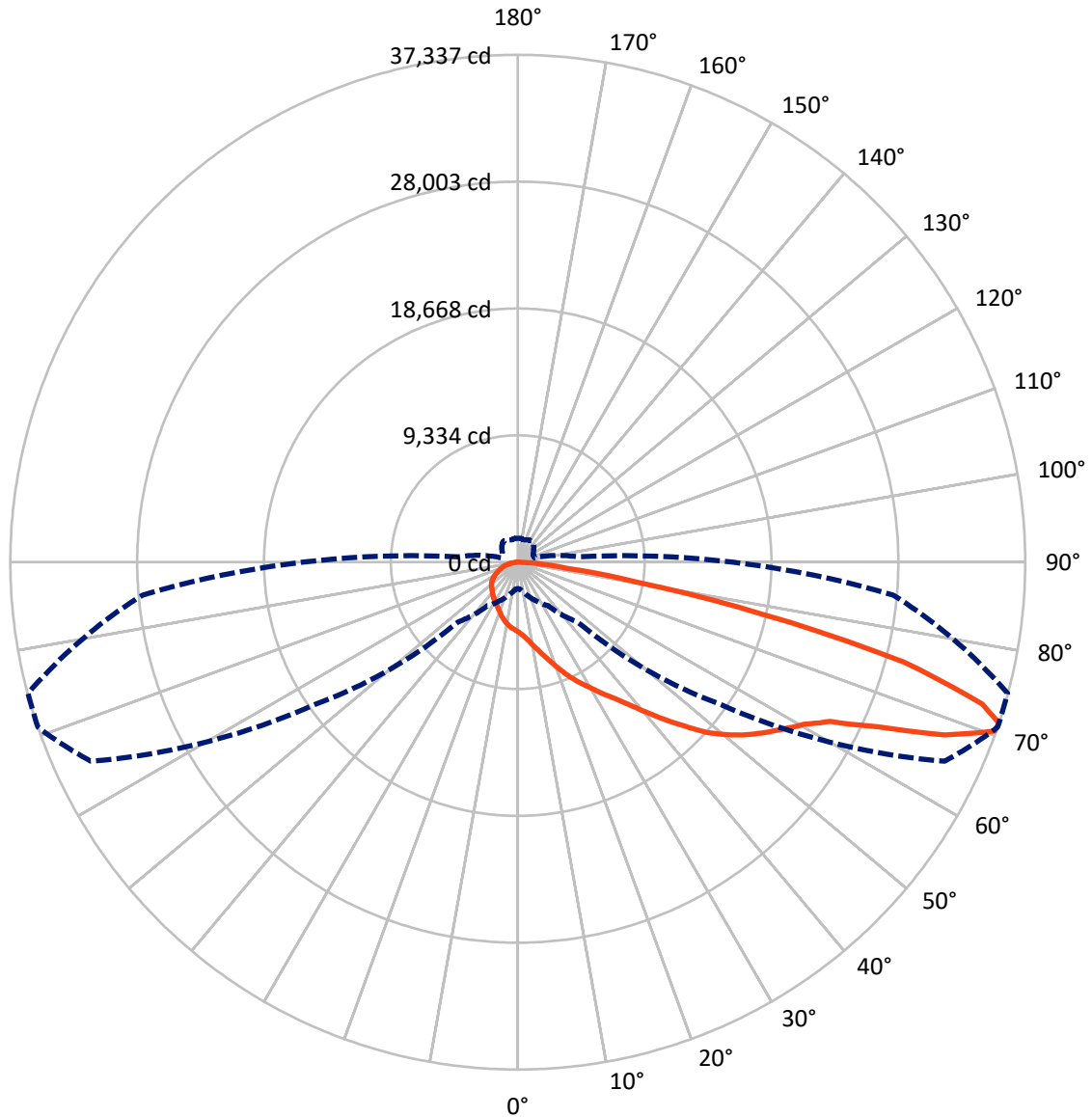
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 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	7498.6	0.0	7498.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	34195.4	0.0	34195.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	41694.0	0.0	41694.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	513.8	1.2
10°-20°	1669.3	4.0
20°-30°	2917.2	7.0
30°-40°	4338.9	10.4
40°-50°	6392.9	15.3
50°-60°	8950.1	21.5
60°-70°	10010.4	24.0
70°-80°	6114.8	14.7
80°-90°	786.6	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°	41694.0	100.0
0°-180°	41694.0	100.0

Coefficient of Utilization



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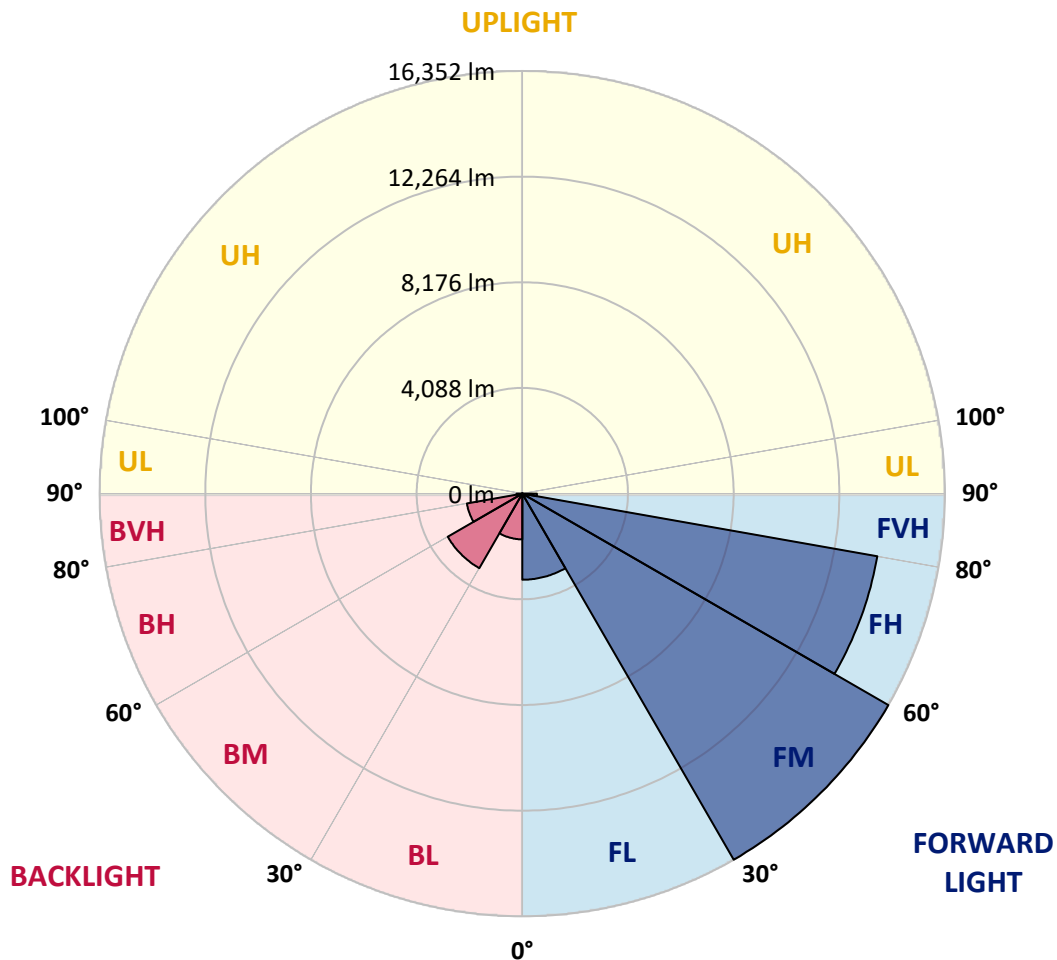
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3331.4	8.0			
FM	(30°-60°)	16351.6	39.2			
FH	(60°-80°)	13946.5	33.4			G5
FVH	(80°-90°)	566.0	1.4			G4/750
BL	(0°-30°)	1768.9	4.2	B3/2500		
BM	(30°-60°)	3330.4	8.0	B3/5000		
BH	(60°-80°)	2178.7	5.2	B3/2500		G3/2500
BVH	(80°-90°)	220.6	0.5			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1
2.5°	5680.8	5653.3	5655.6	5616.7	5566.3	5511.3	5433.4	5364.6	5309.6	5277.5	5183.6
5°	6295.0	6267.5	6233.1	6148.3	6111.7	5976.5	5804.6	5648.8	5529.6	5463.1	5275.2
7.5°	6792.3	6785.4	6776.2	6728.1	6634.1	6446.2	6299.6	6029.2	5852.7	5726.7	5405.9
10°	7099.3	7110.8	7117.7	7126.8	7087.9	6989.3	6787.7	6446.2	6221.7	6061.3	5575.4
12.5°	7255.2	7266.6	7305.6	7390.4	7443.1	7431.6	7266.6	6932.1	6622.7	6411.9	5756.5
15°	7351.4	7369.7	7438.5	7550.8	7727.2	7839.5	7759.3	7450.0	7110.8	6861.0	5971.9
17.5°	7456.8	7477.5	7553.1	7713.5	7944.9	8187.8	8274.9	8009.1	7640.2	7342.2	6212.5
20°	7516.4	7543.9	7651.6	7862.4	8132.8	8485.8	8774.5	8634.7	8231.4	7901.4	6489.8
22.5°	7612.7	7635.6	7727.2	7951.8	8274.9	8717.2	9274.1	9244.3	8889.1	8462.8	6794.6
25°	7873.9	7910.6	7956.4	8091.6	8403.3	8953.2	9688.8	9895.1	9526.1	9049.5	7074.1
27.5°	8366.6	8396.4	8394.1	8412.4	8588.9	9157.2	10048.6	10539.0	10158.6	9643.0	7344.5
30°	8928.0	8939.5	8948.7	8907.4	8946.4	9365.7	10378.6	11176.1	10795.7	10252.6	7580.6
32.5°	9610.9	9633.8	9555.9	9450.5	9418.4	9675.1	10651.3	11813.1	11549.6	10871.3	7814.3
35°	10417.6	10477.1	10319.0	10133.4	10002.8	10119.7	11018.0	12463.9	12321.9	11661.9	8123.7
37.5°	11338.8	11412.1	11265.4	10901.1	10715.5	10747.5	11496.9	13268.3	13298.1	12562.5	8584.3
40°	12092.7	12189.0	12193.5	11677.9	11396.1	11432.7	12104.2	14134.5	14476.0	13676.2	9127.4
42.5°	12590.0	12683.9	12782.5	12480.0	12184.4	12392.9	12812.3	15074.1	15800.5	15028.2	9885.9
45°	13135.4	13220.2	13275.2	13137.7	12972.7	13513.5	13667.0	16073.2	17212.1	16538.4	10715.5
47.5°	13767.9	13861.8	13914.5	13783.9	13722.0	14496.6	14588.2	17005.9	18720.0	18005.0	11632.1
50°	14611.2	14682.2	14654.7	14572.2	14558.5	15250.5	15472.8	17879.0	19964.3	19583.9	12583.1
52.5°	15660.7	15745.5	15775.3	15658.4	15605.7	15789.0	16185.5	18674.2	21096.4	20940.5	13598.3
55°	16295.5	16430.7	16884.4	17067.7	17193.8	16485.7	16953.2	19551.8	22111.5	22370.5	14689.1
57.5°	15482.0	15656.1	16671.3	17587.9	18772.7	18227.3	18041.7	20468.5	23126.7	23756.9	15995.3
60°	13497.5	13536.4	14844.9	16533.8	18917.1	20466.2	20312.6	21925.9	24226.7	25154.8	17716.3
62.5°	9363.4	9445.9	10992.7	13687.7	17134.2	21272.8	24176.3	24442.1	25803.3	27247.0	20239.3
65°	4828.4	4720.7	6130.0	8602.6	12917.7	19357.0	27306.6	29068.8	29222.3	30519.4	23791.3
67.5°	2972.2	3020.3	3680.3	5023.2	7637.9	14068.1	26978.9	34722.1	33913.2	34536.5	27088.9
70°	2232.0	2291.6	2745.3	3437.4	4656.5	8043.5	21696.8	36092.5	37222.3	37061.9	28092.6
71°	1941.0	2002.8	2474.9	3128.0	3911.7	6207.9	18280.0	34658.0	37336.8	37309.3	27714.5
72.5°	1654.5	1693.5	2062.4	2649.1	3297.6	4351.7	13733.5	31083.1	35744.2	36658.5	26364.7
75°	1299.3	1329.1	1494.1	2021.2	2596.4	2672.0	7369.7	23303.2	29357.5	31099.1	21948.8
77.5°	1058.7	1079.3	1164.1	1501.0	2002.8	1892.9	3865.9	15168.0	18392.3	20145.4	12929.1
80°	841.0	863.9	914.3	1017.5	1501.0	1349.7	1844.7	7686.0	8884.5	8866.2	5160.7
82.5°	653.1	660.0	719.6	747.1	1026.6	957.9	999.1	3254.1	3604.7	3723.8	1863.1
85°	412.5	433.1	637.1	572.9	614.1	561.4	492.7	1292.5	1592.7	1569.7	744.8
87.5°	126.0	132.9	215.4	242.9	272.7	245.2	181.0	380.4	465.2	504.1	185.6
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1	5117.1
2.5°	5146.9	5121.7	5032.3	4959.0	4890.2	4814.6	4750.5	4732.1	4716.1	4709.2	4706.9
5°	5195.0	5119.4	4943.0	4798.6	4684.0	4578.6	4512.1	4482.3	4452.6	4452.6	4461.7
7.5°	5263.8	5126.3	4853.6	4638.2	4493.8	4395.3	4347.1	4342.6	4349.4	4356.3	4358.6
10°	5339.4	5121.7	4723.0	4454.8	4326.5	4280.7	4283.0	4321.9	4358.6	4386.1	4390.7
12.5°	5412.7	5094.2	4569.4	4283.0	4200.5	4209.6	4273.8	4360.9	4431.9	4470.9	4473.2
15°	5495.2	5050.7	4383.8	4120.3	4092.8	4163.8	4283.0	4415.9	4523.6	4587.8	4594.6
17.5°	5564.0	4977.3	4189.0	3962.2	3996.5	4127.2	4292.1	4464.0	4594.6	4674.8	4688.6
20°	5641.9	4883.4	3987.4	3810.9	3909.4	4085.9	4273.8	4459.4	4594.6	4672.5	4690.9
22.5°	5703.8	4750.5	3794.9	3687.2	3831.5	4035.5	4211.9	4360.9	4470.9	4512.1	4539.6
25°	5729.0	4583.2	3613.8	3586.3	3769.7	3953.0	4072.2	4156.9	4191.3	4186.7	4198.2
27.5°	5715.2	4390.7	3458.0	3506.1	3691.7	3824.7	3884.2	3877.4	3815.5	3758.2	3785.7
30°	5657.9	4161.5	3327.4	3423.6	3590.9	3664.2	3655.1	3565.7	3448.8	3341.1	3348.0
32.5°	5554.8	3914.0	3205.9	3329.7	3448.8	3480.9	3419.0	3302.2	3134.9	2995.1	2974.5
35°	5467.7	3678.0	3098.2	3222.0	3306.8	3290.7	3231.1	3079.9	2928.6	2804.9	2784.3
37.5°	5454.0	3476.3	2995.1	3100.5	3148.6	3125.7	3052.4	2924.1	2869.1	2775.1	2763.7
40°	5527.3	3334.3	2889.7	2972.2	2995.1	2976.8	2896.6	2823.2	2873.7	2850.7	2850.7
42.5°	5726.7	3258.6	2795.7	2843.9	2862.2	2875.9	2818.7	2756.8	2818.7	2713.2	2678.9
45°	6042.9	3260.9	2710.9	2717.8	2772.8	2820.9	2782.0	2690.3	2658.2	2447.4	2406.2
47.5°	6508.1	3338.8	2642.2	2598.7	2697.2	2777.4	2722.4	2589.5	2447.4	2307.6	2282.4
50°	7051.2	3478.6	2580.3	2474.9	2596.4	2722.4	2681.2	2525.3	2378.7	2293.9	2277.8
52.5°	7653.9	3655.1	2504.7	2337.4	2472.6	2697.2	2690.3	2516.2	2314.5	2257.2	2243.5
55°	8398.7	3829.2	2410.8	2177.0	2362.6	2676.6	2665.1	2440.5	2300.8	2259.5	2254.9
57.5°	9264.9	4081.3	2275.5	2014.3	2236.6	2591.8	2566.6	2394.7	2254.9	2225.1	2222.8
60°	10660.5	4473.2	2083.1	1865.4	2108.3	2442.8	2474.9	2316.8	2181.6	2174.7	2172.4
62.5°	12496.0	5023.2	1883.7	1711.8	1959.3	2250.3	2342.0	2211.4	2103.7	2138.1	2142.6
65°	15030.5	5486.1	1677.4	1581.2	1794.3	2064.7	2216.0	2112.8	2016.6	2083.1	2083.1
67.5°	16682.8	5495.2	1489.5	1446.0	1627.0	1908.9	2083.1	1996.0	1904.3	2016.6	2021.2
70°	16339.0	4814.6	1333.7	1303.9	1464.3	1741.6	1936.4	1867.6	1762.2	1863.1	1826.4
71°	15784.5	4436.5	1271.8	1248.9	1400.2	1661.4	1867.6	1810.4	1704.9	1771.4	1750.8
72.5°	14899.9	3852.2	1171.0	1175.6	1303.9	1560.6	1771.4	1711.8	1606.4	1643.1	1636.2
75°	12594.6	3364.1	1001.4	1022.0	1120.6	1388.7	1578.9	1533.1	1425.4	1425.4	1418.5
77.5°	7873.9	2351.2	831.8	843.3	951.0	1189.3	1356.6	1317.7	1214.5	1180.2	1171.0
80°	2937.8	1214.5	650.8	664.6	731.0	937.3	1122.9	1086.2	980.8	941.8	905.2
82.5°	1111.4	609.6	478.9	467.5	538.5	715.0	880.0	836.4	753.9	660.0	632.5
85°	419.4	302.5	293.3	284.2	316.2	423.9	545.4	536.2	449.2	382.7	375.8
87.5°	110.0	98.5	114.6	84.8	89.4	80.2	82.5	34.4	16.0	6.9	4.6
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)