

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: P452590

Luminaire Tested: **GALN-SA3C-740-U-T3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452590  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-740-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20812 lumens  
Efficiency: N/A  
Efficacy: 130.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G3

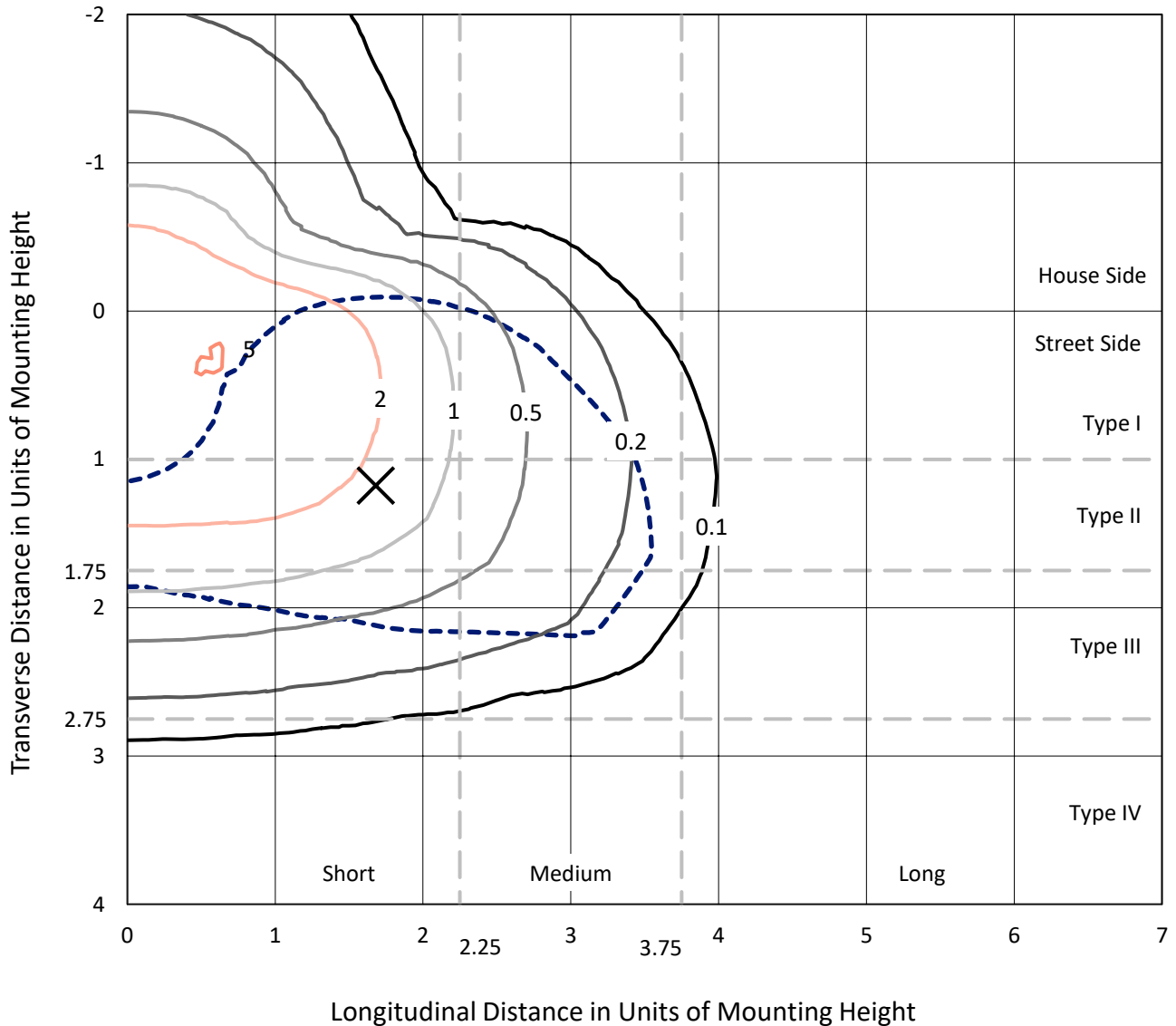
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

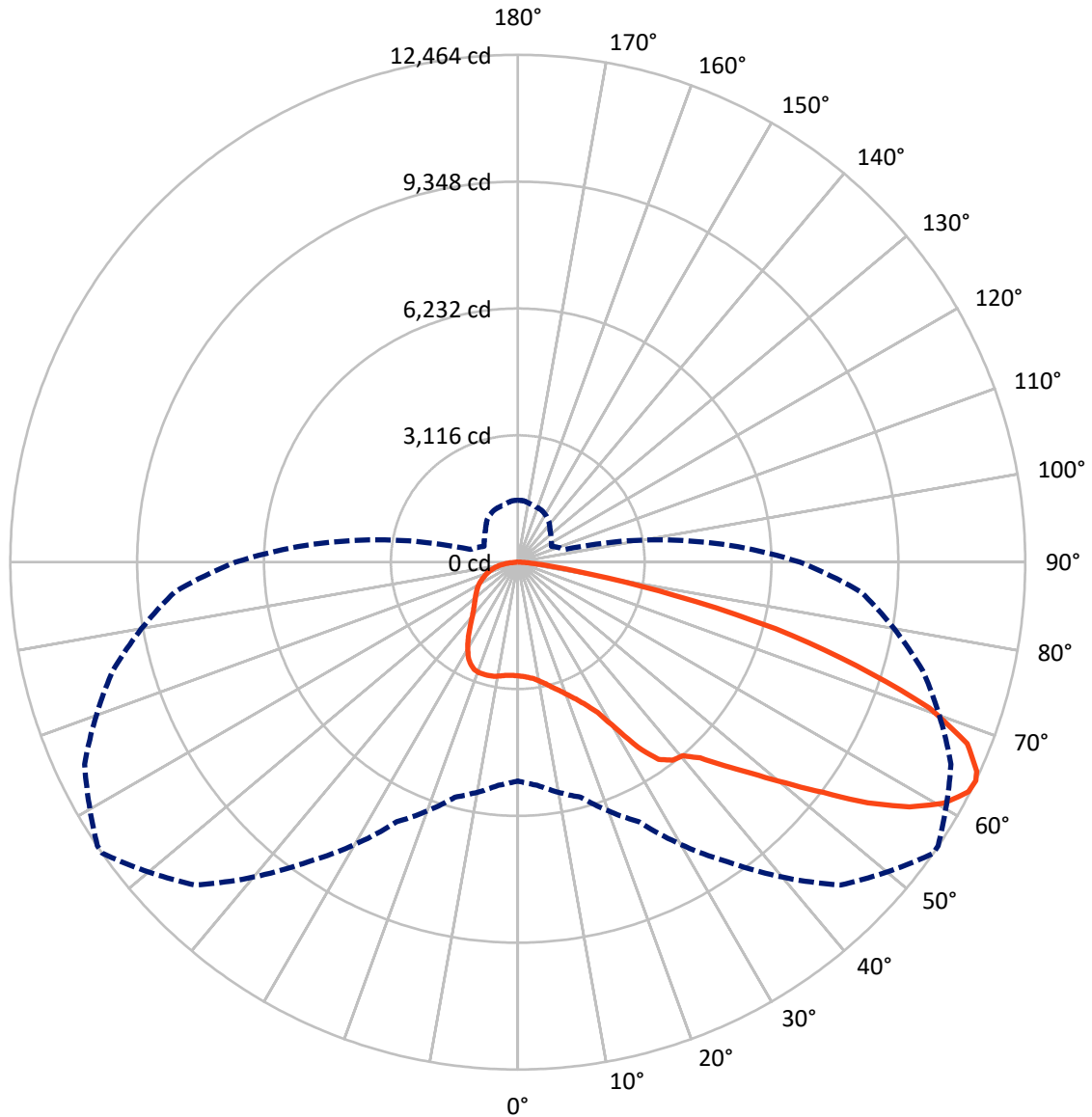
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5055.6	0.0	5055.6
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	15756.4	0.0	15756.4
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	20812.0	0.0	20812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	271.6	1.3
10°-20°	857.0	4.1
20°-30°	1525.8	7.3
30°-40°	2347.6	11.3
40°-50°	3327.8	16.0
50°-60°	4817.0	23.1
60°-70°	4985.1	24.0
70°-80°	2334.5	11.2
80°-90°	345.6	1.7
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°	20812.0	100.0
0°-180°	20812.0	100.0

**Coefficient of Utilization**



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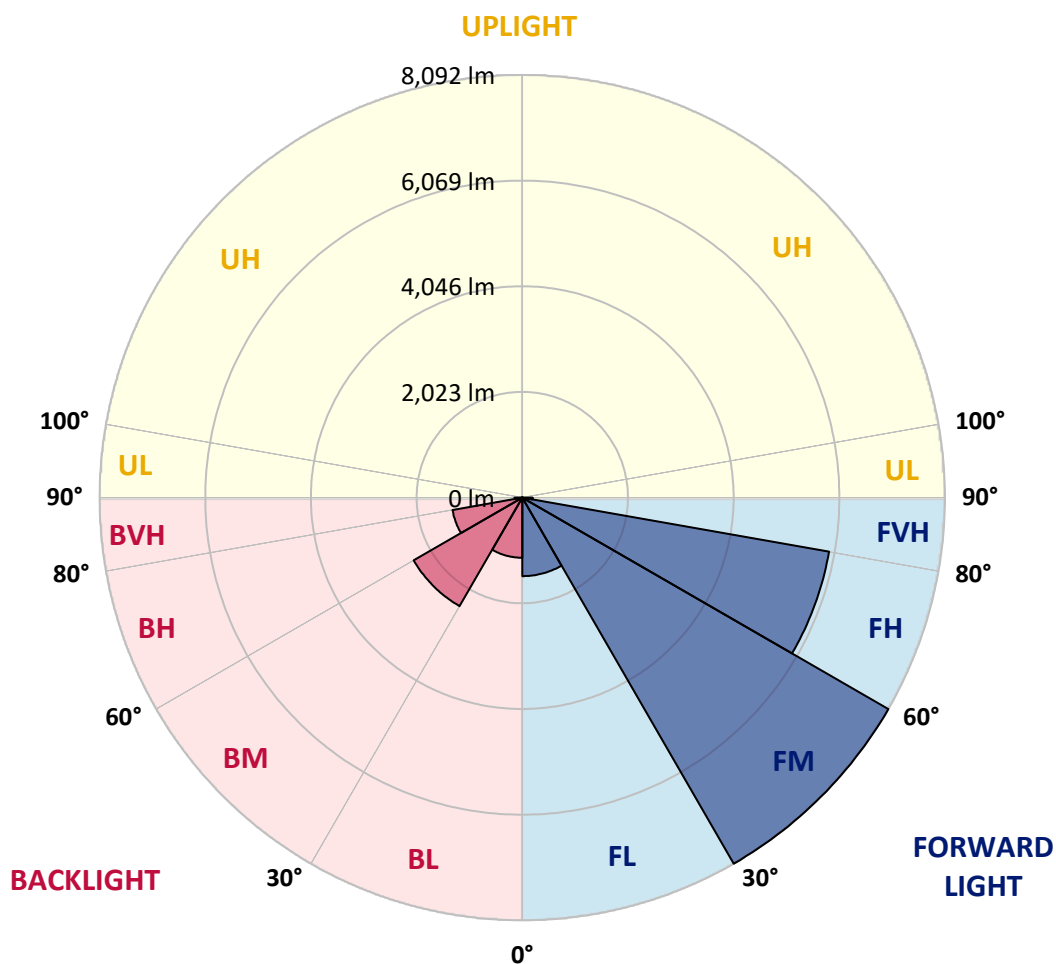
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1503.0	7.2			
FM	(30°-60°)	8092.3	38.9			
FH	(60°-80°)	5963.3	28.7			G3/7500
FVH	(80°-90°)	197.9	1.0			G2/225
BL	(0°-30°)	1151.5	5.5	B3/2500		
BM	(30°-60°)	2400.1	11.5	B2/2500		
BH	(60°-80°)	1356.3	6.5	B3/2500		G3/2500
BVH	(80°-90°)	147.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3
2.5°	2823.7	2822.5	2826.0	2822.5	2824.8	2816.7	2813.2	2815.5	2812.1	2806.3	2795.8
5°	2858.5	2857.3	2858.5	2853.8	2856.1	2851.5	2843.4	2845.7	2839.9	2827.1	2812.1
7.5°	2917.6	2913.0	2913.0	2911.8	2907.2	2900.2	2894.4	2892.1	2886.3	2870.1	2846.9
10°	2994.2	2994.2	2995.4	2986.1	2991.9	2979.1	2973.3	2972.2	2952.4	2931.6	2899.1
12.5°	3095.1	3100.9	3097.4	3092.8	3090.5	3085.8	3066.1	3070.8	3048.7	3012.8	2973.3
15°	3220.4	3229.7	3223.9	3221.6	3215.8	3198.4	3190.3	3186.8	3157.8	3105.6	3053.4
17.5°	3386.3	3374.7	3370.1	3364.3	3339.9	3327.1	3313.2	3310.9	3285.4	3223.9	3142.7
20°	3531.3	3547.6	3538.3	3532.5	3508.1	3483.8	3473.3	3469.8	3447.8	3380.5	3250.6
22.5°	3704.2	3707.7	3711.1	3697.2	3685.6	3667.1	3648.5	3642.7	3634.6	3565.0	3406.0
25°	3888.6	3902.6	3890.9	3877.0	3863.1	3861.9	3879.3	3877.0	3873.5	3806.3	3612.5
27.5°	4189.1	4201.9	4205.3	4190.3	4136.9	4141.5	4181.0	4193.7	4247.1	4135.7	3878.2
30°	4358.5	4371.2	4400.2	4457.1	4541.8	4616.0	4711.1	4740.1	4791.2	4581.2	4193.7
32.5°	4462.9	4467.5	4519.7	4625.3	4879.3	5156.6	5415.3	5425.8	5458.2	5163.6	4482.6
35°	4627.6	4631.1	4672.9	4788.9	5087.0	5548.7	5949.0	5961.7	5935.0	5344.5	4617.2
37.5°	4830.6	4839.9	4866.6	4962.9	5319.0	5877.0	6170.5	6161.3	5924.6	5488.4	4855.0
40°	5126.4	5126.4	5095.1	5225.1	5563.8	6065.0	6248.3	6232.0	6169.4	5904.9	5216.9
42.5°	5387.5	5382.8	5457.1	5545.2	5870.1	6355.0	6574.2	6600.9	6704.2	6428.1	5628.8
45°	5727.4	5748.3	5790.0	5950.1	6390.9	6850.3	7133.4	7158.9	7305.1	7044.1	6110.2
47.5°	6070.8	6077.7	6208.8	6422.3	7036.0	7522.0	7754.1	7795.8	7929.2	7764.5	6628.8
50°	6314.4	6380.5	6590.5	6926.9	7700.7	8341.1	8522.0	8571.9	8807.4	8548.7	7233.2
52.5°	6571.9	6636.9	6893.3	7406.0	8464.0	9178.7	9401.4	9435.0	9679.8	9342.2	7851.5
55°	6792.3	6852.7	7143.8	7830.6	9071.9	10033.6	10437.4	10397.9	10515.1	9953.6	8328.3
57.5°	6828.3	6877.0	7243.6	8102.1	9529.0	10766.8	11345.7	11368.9	11233.2	10410.7	8721.6
60°	6549.9	6649.6	7070.8	8073.1	9734.3	11277.3	12023.2	12039.4	11654.3	10645.0	8878.2
62.5°	6056.8	6046.4	6555.7	7606.7	9446.6	11393.3	12422.3	12404.9	11819.0	10532.5	8726.2
64°	5375.9	5501.2	5976.8	7033.6	8982.6	11214.6	12464.0	12454.8	11740.1	10298.1	8467.5
65°	4960.6	4953.6	5423.4	6565.0	8520.9	10945.5	12389.8	12377.0	11575.4	10088.2	8266.8
67.5°	3581.2	3597.4	4061.5	5066.1	6926.9	9893.3	11906.0	11858.5	10925.7	9392.1	7503.5
70°	2169.4	2178.7	2542.9	3360.8	4972.2	7997.7	10732.0	10734.3	9931.6	8352.7	6386.3
72.5°	1142.7	1167.1	1313.2	1908.4	3019.7	5611.4	8706.5	8913.0	8526.7	7128.8	5045.2
75°	635.7	639.2	742.5	940.8	1540.6	3140.4	6544.1	6603.2	6750.6	5737.8	3730.9
77.5°	484.9	491.9	524.4	607.9	838.7	1455.9	3960.6	4257.5	4757.5	4045.2	2128.8
80°	393.3	400.2	428.1	478.0	558.0	690.3	1839.9	2000.0	2546.4	1795.8	830.6
82.5°	306.3	301.6	337.6	370.1	406.0	408.4	755.2	835.3	1037.1	772.6	359.6
85°	227.4	227.4	256.4	249.4	262.2	239.0	332.9	367.7	415.3	328.3	167.1
87.5°	90.5	99.8	168.2	150.8	117.2	94.0	123.0	129.9	143.9	128.8	69.6
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°	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3	2792.3
2.5°	2797.0	2800.5	2792.3	2786.5	2784.2	2780.7	2777.3	2778.4	2783.1	2787.7	2786.5
5°	2810.9	2812.1	2798.1	2791.2	2786.5	2781.9	2781.9	2785.4	2794.7	2801.6	2801.6
7.5°	2845.7	2845.7	2826.0	2813.2	2806.3	2798.1	2795.8	2797.0	2803.9	2813.2	2814.4
10°	2900.2	2895.6	2870.1	2850.3	2837.6	2817.9	2800.5	2791.2	2794.7	2800.5	2800.5
12.5°	2966.4	2953.6	2921.1	2894.4	2863.1	2826.0	2790.0	2771.5	2770.3	2776.1	2773.8
15°	3037.1	3023.2	2978.0	2929.2	2874.7	2820.2	2777.3	2750.6	2729.7	2723.9	2736.7
17.5°	3119.5	3090.5	3027.8	2960.6	2879.3	2808.6	2741.3	2686.8	2649.7	2639.2	2642.7
20°	3219.3	3181.0	3096.3	2990.7	2875.9	2766.8	2662.4	2589.3	2529.0	2510.4	2512.8
22.5°	3357.3	3291.2	3167.1	3005.8	2846.9	2687.9	2542.9	2447.8	2374.7	2345.7	2363.1
25°	3513.9	3442.0	3234.3	3002.3	2771.5	2561.5	2401.4	2277.3	2211.1	2168.2	2177.5
27.5°	3729.7	3602.1	3306.3	2971.0	2663.6	2407.2	2221.6	2104.4	2044.1	2022.0	2032.5
30°	4005.8	3809.7	3384.0	2886.3	2493.0	2212.3	2040.6	1964.0	1928.1	1900.2	1909.5
32.5°	4205.3	3955.9	3401.4	2743.6	2308.6	2034.8	1917.6	1860.8	1821.3	1794.7	1800.5
35°	4348.0	4080.0	3393.3	2568.4	2116.0	1888.6	1820.2	1773.8	1710.0	1652.0	1641.5
37.5°	4539.4	4235.5	3334.1	2377.0	1925.8	1790.0	1741.3	1655.5	1563.8	1486.1	1482.6
40°	4832.9	4417.6	3207.7	2152.0	1763.3	1716.9	1657.8	1546.4	1447.8	1385.2	1380.5
42.5°	5135.7	4585.8	3036.0	1915.3	1629.9	1640.4	1568.4	1458.2	1397.9	1357.3	1352.7
45°	5505.8	4768.0	2850.3	1710.0	1531.3	1568.4	1490.7	1426.9	1391.0	1364.3	1357.3
47.5°	5906.0	4954.8	2641.5	1525.5	1447.8	1502.3	1458.2	1429.2	1409.5	1391.0	1382.8
50°	6337.6	5163.6	2445.5	1377.0	1372.4	1433.9	1454.8	1444.3	1432.7	1426.9	1420.0
52.5°	6810.9	5377.0	2280.7	1272.6	1306.3	1385.2	1455.9	1464.0	1464.0	1460.6	1455.9
55°	7131.1	5525.5	2113.7	1187.9	1239.0	1345.7	1453.6	1484.9	1496.5	1491.9	1487.2
57.5°	7367.7	5606.7	1903.7	1114.8	1182.1	1307.4	1440.8	1487.2	1498.8	1504.6	1502.3
60°	7416.5	5531.3	1628.8	1038.3	1120.6	1251.7	1394.4	1452.4	1467.5	1503.5	1507.0
62.5°	7197.2	5299.3	1355.0	962.9	1045.2	1167.1	1331.8	1413.0	1443.2	1498.8	1504.6
64°	6928.1	5039.4	1203.0	915.3	996.5	1119.5	1300.5	1402.6	1442.0	1516.2	1520.9
65°	6730.9	4850.3	1107.9	885.2	965.2	1088.2	1283.1	1406.0	1452.4	1542.9	1549.9
67.5°	6004.6	4199.5	916.5	814.4	891.0	1034.8	1286.5	1435.0	1450.1	1553.4	1552.2
70°	4968.7	3343.4	768.0	749.4	819.0	991.9	1272.6	1388.6	1389.8	1458.2	1442.0
72.5°	3720.4	2471.0	665.9	682.1	739.0	889.8	1201.9	1326.0	1306.3	1315.5	1299.3
75°	2555.7	1634.6	573.1	610.2	655.5	786.5	1102.1	1204.2	1172.9	1161.3	1149.7
77.5°	1364.3	903.7	476.8	539.4	569.6	679.8	961.7	1060.3	1027.8	982.6	967.5
80°	552.2	425.8	384.0	446.6	464.0	547.6	800.5	861.9	837.6	758.7	733.2
82.5°	277.3	255.2	301.6	351.5	352.7	391.0	595.1	653.1	598.6	502.3	480.3
85°	145.0	149.7	207.7	247.1	218.1	211.1	357.3	395.6	363.1	315.5	284.2
87.5°	52.2	60.3	109.0	107.9	76.6	40.6	78.9	38.3	20.9	12.8	16.2
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)