

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: P652135

Luminaire Tested: **GALN-SA9A-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652135
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-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 35064.7 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

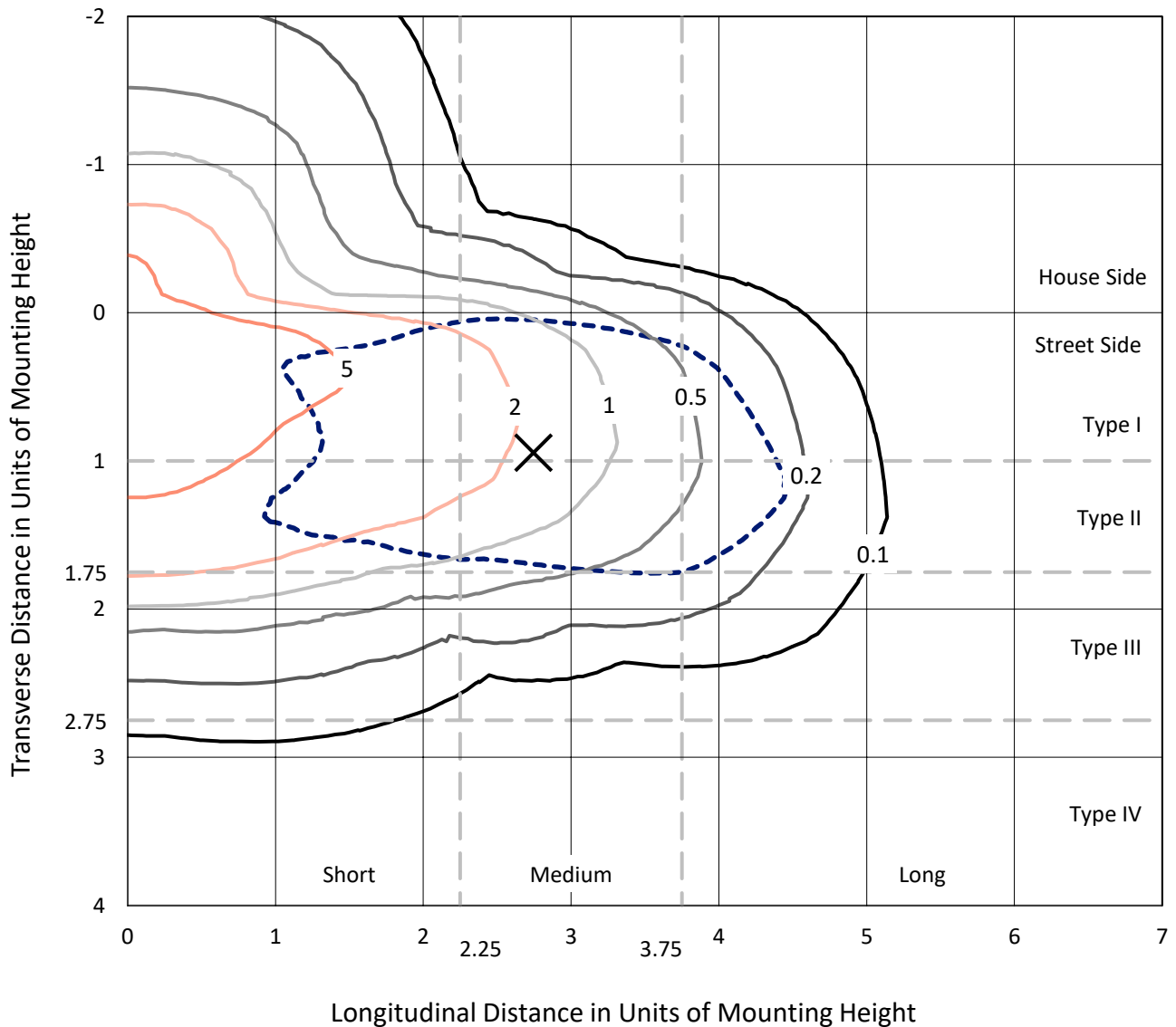
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

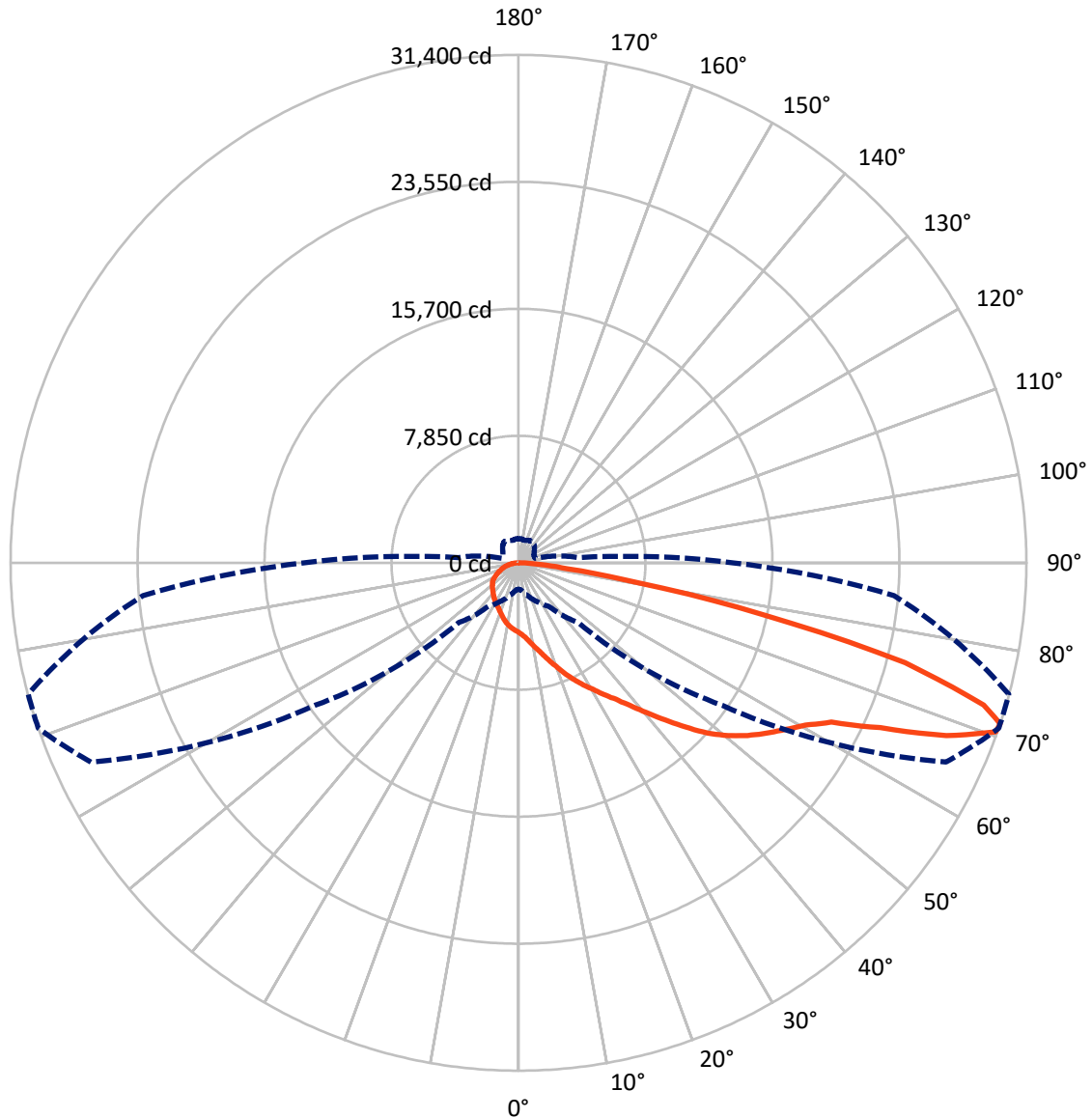
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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	6306.3	0.0	6306.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	28758.4	0.0	28758.4
	% Fixture	82.0	0.0	82.0
Total	Lumens	35064.7	0.0	35064.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.1	1.2
10°-20°	1403.9	4.0
20°-30°	2453.4	7.0
30°-40°	3649.1	10.4
40°-50°	5376.4	15.3
50°-60°	7527.1	21.5
60°-70°	8418.8	24.0
70°-80°	5142.5	14.7
80°-90°	661.5	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°	35064.7	100.0
0°-180°	35064.7	100.0

Coefficient of Utilization

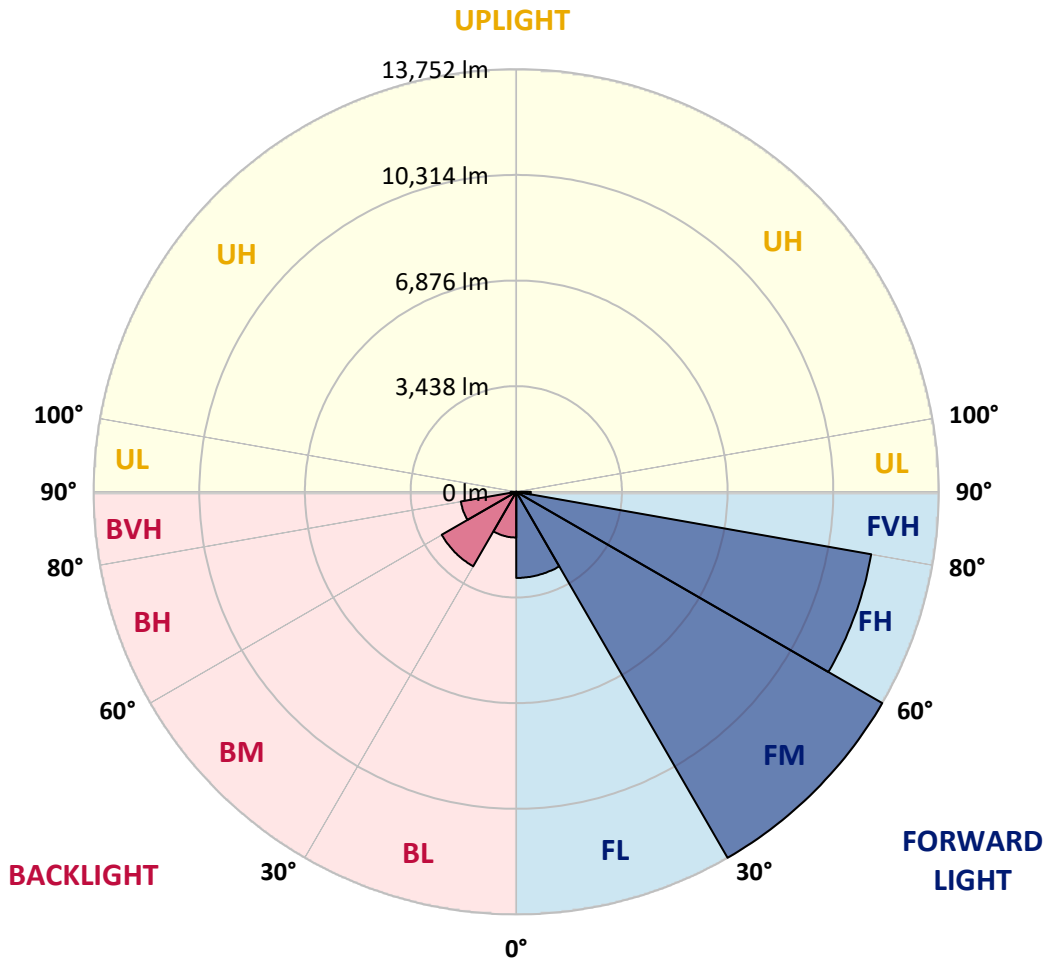


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2801.7	8.0			
FM (30°-60°)	13751.7	39.2			
FH (60°-80°)	11729.0	33.4			G4/12000
FVH (80°-90°)	476.0	1.4			G3/500
BL (0°-30°)	1487.6	4.2	B3/2500		
BM (30°-60°)	2800.9	8.0	B3/5000		
BH (60°-80°)	1832.3	5.2	B3/2500		G3/2500
BVH (80°-90°)	185.5	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5
2.5°	4777.6	4754.4	4756.4	4723.6	4681.3	4635.0	4569.5	4511.6	4465.4	4438.4	4359.4
5°	5294.1	5271.0	5242.0	5170.7	5139.9	5026.2	4881.7	4750.6	4650.4	4594.5	4436.4
7.5°	5712.3	5706.5	5698.8	5658.3	5579.3	5421.3	5298.0	5070.6	4922.1	4816.2	4546.4
10°	5970.5	5980.2	5986.0	5993.6	5960.9	5878.0	5708.5	5421.3	5232.4	5097.6	4688.9
12.5°	6101.6	6111.2	6144.0	6215.3	6259.6	6250.0	6111.2	5829.9	5569.7	5392.4	4841.2
15°	6182.5	6197.9	6255.8	6350.2	6498.6	6593.0	6525.6	6265.4	5980.2	5770.1	5022.4
17.5°	6271.2	6288.6	6352.2	6487.1	6681.7	6885.9	6959.2	6735.7	6425.4	6174.8	5224.7
20°	6321.3	6344.4	6435.0	6612.3	6839.7	7136.6	7379.4	7261.8	6922.6	6645.1	5457.9
22.5°	6402.3	6421.5	6498.6	6687.5	6959.2	7331.2	7799.5	7774.5	7475.7	7117.2	5714.3
25°	6621.9	6652.8	6691.3	6805.0	7067.2	7529.6	8148.3	8321.8	8011.5	7610.6	5949.3
27.5°	7036.3	7061.4	7059.4	7074.8	7223.3	7701.2	8450.9	8863.3	8543.4	8109.8	6176.7
30°	7508.4	7518.1	7525.9	7491.1	7523.9	7876.6	8728.4	9399.1	9079.2	8622.4	6375.3
32.5°	8082.8	8102.0	8036.5	7947.9	7920.9	8136.8	8957.7	9934.8	9713.2	9142.8	6571.8
35°	8761.2	8811.2	8678.3	8522.2	8412.4	8510.7	9266.1	10482.1	10362.7	9807.7	6832.0
37.5°	9535.9	9597.6	9474.2	9167.8	9011.7	9038.6	9668.9	11158.6	11183.7	10565.1	7219.4
40°	10170.0	10250.9	10254.7	9821.1	9584.1	9614.9	10179.6	11887.1	12174.3	11501.7	7676.1
42.5°	10588.2	10667.2	10750.1	10495.7	10247.1	10422.4	10775.1	12677.3	13288.2	12638.7	8314.0
45°	11046.9	11118.2	11164.4	11048.8	10910.0	11364.9	11493.9	13517.6	14475.4	13908.8	9011.7
47.5°	11578.8	11657.8	11702.1	11592.3	11540.2	12191.6	12268.7	14302.0	15743.5	15142.2	9782.6
50°	12288.0	12347.7	12324.6	12255.2	12243.7	12825.7	13012.6	15036.2	16790.0	16470.1	10582.4
52.5°	13170.6	13242.0	13267.0	13168.7	13124.4	13278.5	13612.0	15705.0	17742.1	17611.0	11436.2
55°	13704.5	13818.2	14199.8	14353.9	14460.0	13864.5	14257.6	16443.1	18595.8	18813.6	12353.5
57.5°	13020.4	13166.8	14020.6	14791.4	15787.8	15329.2	15173.1	17214.0	19449.6	19979.6	13452.0
60°	11351.4	11384.1	12484.6	13904.9	15909.3	17212.1	17082.9	18439.7	20374.7	21155.2	14899.4
62.5°	7874.6	7944.0	9244.9	11511.4	14409.9	17890.4	20332.3	20555.8	21700.6	22914.7	17021.3
65°	4060.7	3970.1	5155.3	7234.8	10863.8	16279.2	22964.9	24446.9	24576.0	25666.8	20008.5
67.5°	2499.6	2540.1	3095.1	4224.5	6423.5	11831.3	22689.3	29201.3	28521.0	29045.2	22781.8
70°	1877.1	1927.2	2308.8	2890.9	3916.1	6764.6	18247.0	30353.8	31304.0	31169.1	23625.9
71°	1632.4	1684.4	2081.4	2630.6	3289.7	5220.8	15373.5	29147.4	31400.2	31377.1	23307.9
72.5°	1391.4	1424.2	1734.5	2227.9	2773.3	3659.8	11549.9	26140.9	30060.9	30829.8	22172.7
75°	1092.7	1117.8	1256.5	1699.8	2183.6	2247.2	6197.9	19598.0	24689.7	26154.3	18458.9
77.5°	890.4	907.7	979.0	1262.3	1684.4	1591.9	3251.2	12756.3	15467.9	16942.3	10873.4
80°	707.3	726.5	768.9	855.7	1262.3	1135.1	1551.4	6463.9	7471.9	7456.5	4340.1
82.5°	549.3	555.1	605.2	628.3	863.4	805.6	840.2	2736.7	3031.6	3131.7	1566.9
85°	346.9	364.2	535.8	481.8	516.5	472.1	414.4	1087.0	1339.5	1320.1	626.4
87.5°	106.0	111.8	181.2	204.3	229.3	206.2	152.2	319.9	391.2	423.9	156.1
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°	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5	4303.5
2.5°	4328.5	4307.3	4232.2	4170.5	4112.7	4049.1	3995.2	3979.7	3966.2	3960.4	3958.5
5°	4369.0	4305.4	4157.1	4035.6	3939.2	3850.6	3794.7	3769.6	3744.6	3744.6	3752.3
7.5°	4426.9	4311.2	4081.9	3900.7	3779.3	3696.4	3655.9	3652.1	3657.8	3663.6	3665.6
10°	4490.4	4307.3	3972.0	3746.5	3638.6	3600.1	3602.0	3634.7	3665.6	3688.7	3692.6
12.5°	4552.1	4284.2	3842.9	3602.0	3532.6	3540.3	3594.3	3667.5	3727.2	3760.0	3762.0
15°	4621.5	4247.6	3686.8	3465.2	3442.0	3501.8	3602.0	3713.8	3804.3	3858.3	3864.1
17.5°	4679.3	4185.9	3522.9	3332.2	3361.1	3471.0	3609.7	3754.2	3864.1	3931.5	3943.1
20°	4744.8	4106.9	3353.4	3205.0	3287.8	3436.2	3594.3	3750.4	3864.1	3929.6	3945.0
22.5°	4796.9	3995.2	3191.5	3100.9	3222.3	3393.9	3542.2	3667.5	3760.0	3794.7	3817.8
25°	4818.1	3854.5	3039.2	3016.1	3170.3	3324.5	3424.7	3496.0	3524.9	3521.0	3530.7
27.5°	4806.5	3692.6	2908.2	2948.6	3104.7	3216.6	3266.6	3260.9	3208.8	3160.6	3183.8
30°	4758.3	3499.8	2798.3	2879.2	3019.9	3081.6	3073.9	2998.8	2900.4	2809.9	2815.7
32.5°	4671.6	3291.7	2696.2	2800.3	2900.4	2927.4	2875.4	2777.2	2636.5	2518.9	2501.6
35°	4598.3	3093.2	2605.6	2709.7	2781.0	2767.5	2717.4	2590.2	2463.0	2358.9	2341.6
37.5°	4586.8	2923.6	2518.9	2607.5	2648.0	2628.7	2567.1	2459.2	2412.9	2333.9	2324.3
40°	4648.5	2804.1	2430.2	2499.6	2518.9	2503.5	2436.0	2374.3	2416.8	2397.4	2397.4
42.5°	4816.2	2740.5	2351.2	2391.7	2407.1	2418.6	2370.5	2318.5	2370.5	2281.8	2253.0
45°	5082.1	2742.4	2279.9	2285.7	2331.9	2372.4	2339.7	2262.5	2235.5	2058.3	2023.6
47.5°	5473.3	2807.9	2222.1	2185.5	2268.3	2335.8	2289.5	2177.8	2058.3	1940.7	1919.5
50°	5930.1	2925.5	2170.0	2081.4	2183.6	2289.5	2254.9	2123.8	2000.5	1929.2	1915.6
52.5°	6436.9	3073.9	2106.5	1965.8	2079.5	2268.3	2262.5	2116.1	1946.5	1898.3	1886.8
55°	7063.3	3220.4	2027.5	1830.9	1986.9	2251.0	2241.3	2052.5	1935.0	1900.2	1896.4
57.5°	7791.8	3432.4	1913.7	1694.0	1881.0	2179.7	2158.5	2013.9	1896.4	1871.3	1869.4
60°	8965.5	3762.0	1751.9	1568.8	1773.1	2054.4	2081.4	1948.4	1834.7	1828.9	1827.0
62.5°	10509.1	4224.5	1584.2	1439.6	1647.8	1892.5	1969.6	1859.8	1769.2	1798.1	1801.9
65°	12640.7	4613.8	1410.7	1329.8	1509.0	1736.4	1863.7	1776.9	1696.0	1751.9	1751.9
67.5°	14030.2	4621.5	1252.7	1216.1	1368.3	1605.4	1751.9	1678.6	1601.5	1696.0	1699.8
70°	13741.1	4049.1	1121.6	1096.6	1231.5	1464.7	1628.5	1570.7	1482.0	1566.9	1536.0
71°	13274.8	3731.1	1069.6	1050.3	1177.6	1397.2	1570.7	1522.5	1433.8	1489.7	1472.4
72.5°	12530.8	3239.7	984.8	988.7	1096.6	1312.5	1489.7	1439.6	1351.0	1381.8	1376.0
75°	10592.1	2829.2	842.2	859.5	942.4	1167.9	1327.9	1289.3	1198.8	1198.8	1193.0
77.5°	6621.9	1977.4	699.5	709.2	799.8	1000.2	1140.9	1108.2	1021.4	992.5	984.8
80°	2470.7	1021.4	547.3	558.9	614.8	788.3	944.4	913.5	824.9	792.1	761.3
82.5°	934.7	512.7	402.8	393.2	452.9	601.3	740.1	703.4	634.0	555.1	531.9
85°	352.7	254.4	246.7	239.0	265.9	356.5	458.7	450.9	377.8	321.9	316.0
87.5°	92.5	82.8	96.4	71.3	75.2	67.4	69.4	28.9	13.5	5.8	3.9
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)