

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: P529988

Luminaire Tested: **GALN-SA5A-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15886 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

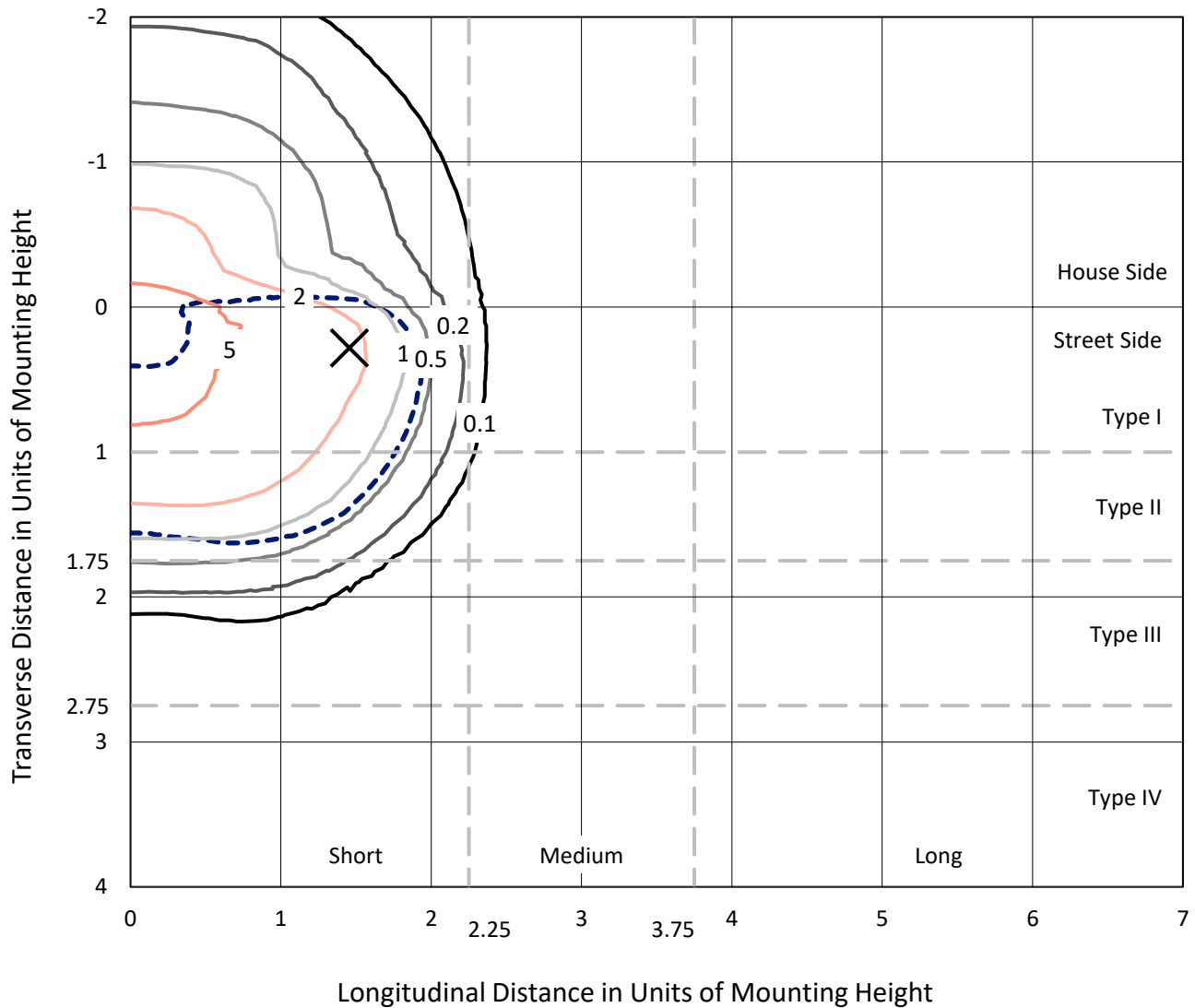
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

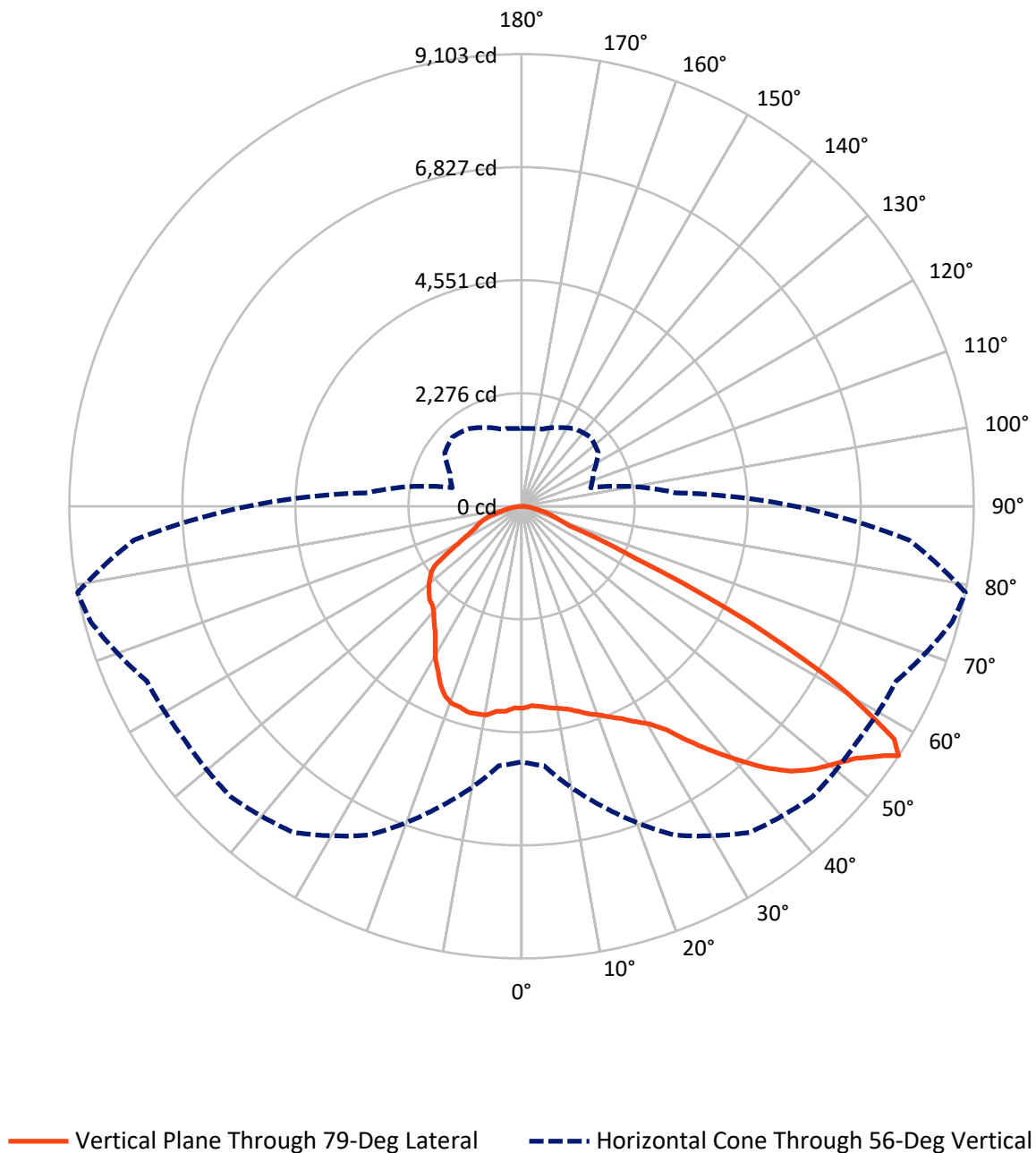
✕ Max cd
 --- 1/2 Max cd



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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4691.5	0.0	4691.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	11194.5	0.0	11194.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	15886.0	0.0	15886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.5	2.3
10°-20°	1011.4	6.4
20°-30°	1730.2	10.9
30°-40°	2651.8	16.7
40°-50°	3583.9	22.6
50°-60°	4116.2	25.9
60°-70°	1876.3	11.8
70°-80°	462.6	2.9
80°-90°	84.1	0.5
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°	15886.0	100.0
0°-180°	15886.0	100.0

Coefficient of Utilization



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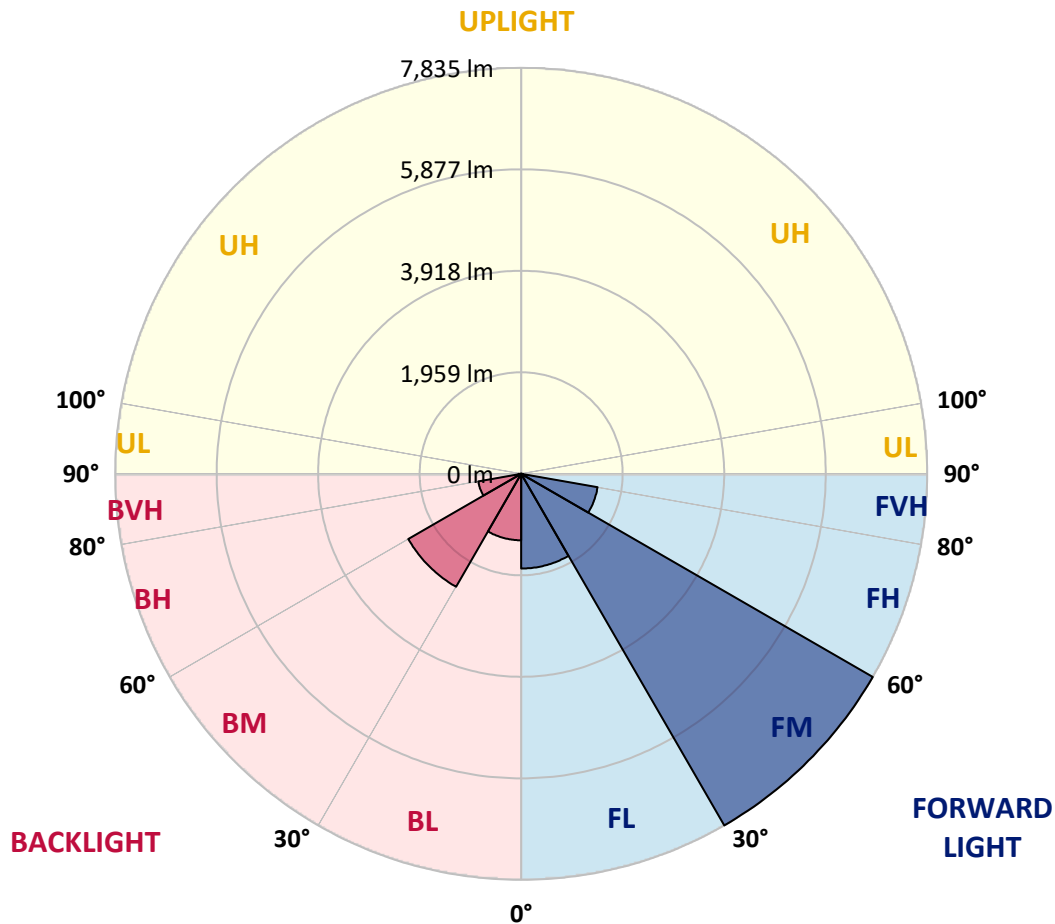
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1827.8	11.5			
FM	(30°-60°)	7835.4	49.3			
FH	(60°-80°)	1497.7	9.4			G1/1800
FVH	(80°-90°)	33.6	0.2			G1/100
BL	(0°-30°)	1283.3	8.1	B3/2500		
BM	(30°-60°)	2516.4	15.8	B3/5000		
BH	(60°-80°)	841.2	5.3	B2/1000		G2/1000
BVH	(80°-90°)	50.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6
2.5°	3866.7	3856.8	3880.6	3898.4	3920.1	3947.8	3961.7	3969.6	4038.9	4021.1	4074.5
5°	3783.6	3757.9	3775.7	3789.5	3827.1	3860.8	3898.4	3957.7	4021.1	4048.8	4114.1
7.5°	3710.4	3696.5	3692.6	3702.5	3753.9	3797.5	3862.8	3949.8	4052.7	4098.2	4135.8
10°	3589.7	3569.9	3599.6	3664.9	3678.7	3769.7	3844.9	3969.6	4058.7	4137.8	4248.6
12.5°	3536.2	3516.5	3522.4	3560.0	3657.0	3744.0	3833.1	3973.6	4161.6	4193.2	4341.6
15°	3621.3	3601.5	3607.5	3597.6	3690.6	3736.1	3876.6	4052.7	4232.8	4286.2	4444.5
17.5°	3815.3	3817.2	3791.5	3769.7	3748.0	3844.9	3941.9	4100.2	4260.5	4395.1	4513.8
20°	4185.3	4120.0	4068.6	3945.9	3912.2	3953.8	4076.5	4228.8	4373.3	4484.1	4618.7
22.5°	4470.3	4476.2	4403.0	4201.1	4127.9	4145.7	4250.6	4375.3	4533.6	4612.7	4767.1
25°	4883.9	4842.3	4763.1	4602.9	4438.6	4452.5	4529.6	4642.4	4686.0	4741.4	4909.6
27.5°	5261.8	5273.7	5117.4	4967.0	4763.1	4723.6	4862.1	4881.9	4808.7	4913.5	4970.9
30°	5645.7	5635.8	5532.9	5356.8	5156.9	5164.8	5226.2	5129.2	5028.3	5085.7	5125.3
32.5°	6043.5	5930.7	5926.7	5768.4	5616.0	5542.8	5467.6	5515.1	5358.8	5370.7	5333.1
35°	6362.1	6377.9	6286.9	6174.1	6098.9	5970.2	5764.4	5849.5	5819.9	5806.0	5643.7
37.5°	6593.6	6532.2	6577.8	6540.2	6468.9	6308.6	6094.9	6176.1	6189.9	6257.2	6069.2
40°	6783.6	6757.8	6878.6	6898.3	6848.9	6502.6	6118.7	6360.1	6567.9	6714.3	6490.7
42.5°	6874.6	6930.0	7056.6	7209.0	7098.2	6728.2	6241.4	6500.6	6963.6	7195.2	6890.4
45°	6997.3	6926.0	7114.0	7393.1	7395.0	6918.1	6360.1	6690.6	7272.3	7608.8	7163.5
47.5°	6872.6	6908.2	7102.2	7456.4	7547.4	7118.0	6680.7	6959.7	7612.7	7911.5	7416.8
50°	6593.6	6664.8	7019.1	7387.1	7662.2	7329.7	7048.7	7250.6	7927.4	8154.9	7458.4
52.5°	6302.7	6342.3	6896.4	7440.5	7713.6	7602.8	7541.5	7652.3	8311.3	8430.0	7509.8
55°	5511.2	5699.1	6490.7	7416.8	7965.0	8095.6	8048.1	8210.3	8746.6	8865.3	7790.8
56°	5145.1	5244.0	6247.3	7306.0	8014.4	8275.6	8251.9	8325.1	8978.1	9102.8	7834.3
57.5°	4468.3	4476.2	5327.1	6815.2	7828.4	8329.1	8305.3	8362.7	8932.6	8847.5	7452.4
60°	2796.1	2918.8	3625.3	5242.0	6656.9	7727.5	7862.0	7401.0	7531.6	7351.5	5798.1
62.5°	1448.5	1430.7	1899.7	3065.3	4418.8	5532.9	5657.6	5635.8	5434.0	5170.8	3787.6
65°	722.3	726.2	993.4	1517.8	2263.8	2897.1	3245.3	3282.9	2746.7	2527.0	1796.8
67.5°	524.4	544.2	714.4	928.1	1066.6	1193.3	1462.4	1434.7	1086.4	1033.0	957.8
70°	407.6	425.5	579.8	708.4	643.1	643.1	700.5	724.3	773.7	795.5	821.2
72.5°	296.8	310.7	443.3	488.8	421.5	453.2	524.4	579.8	631.3	639.2	668.9
75°	203.8	215.7	290.9	269.1	253.3	312.7	383.9	435.4	472.9	492.7	510.5
77.5°	132.6	136.5	166.2	140.5	162.3	201.8	249.3	292.9	330.5	346.3	350.3
80°	59.4	65.3	71.2	89.0	112.8	144.5	178.1	213.7	237.5	243.4	255.3
82.5°	33.6	33.6	43.5	63.3	83.1	104.9	128.6	154.4	182.1	188.0	186.0
85°	17.8	17.8	25.7	37.6	51.5	61.3	59.4	61.3	65.3	75.2	73.2
87.5°	5.9	5.9	7.9	7.9	9.9	11.9	9.9	13.9	17.8	17.8	17.8
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°	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6	4064.6
2.5°	4058.7	4076.5	4052.7	4104.2	4104.2	4094.3	4044.8	4060.6	4072.5	4072.5	4082.4
5°	4135.8	4129.9	4145.7	4084.4	4046.8	4032.9	3951.8	3912.2	3878.6	3876.6	3846.9
7.5°	4179.4	4163.5	4157.6	4112.1	3945.9	3844.9	3670.8	3569.9	3548.1	3470.9	3500.6
10°	4248.6	4278.3	4248.6	4001.3	3769.7	3538.2	3368.0	3211.7	3150.4	3100.9	3071.2
12.5°	4391.1	4377.3	4205.1	3870.7	3546.1	3271.1	3017.8	2853.5	2792.2	2748.6	2744.7
15°	4511.8	4442.6	4179.4	3664.9	3197.9	2905.0	2697.2	2580.4	2552.7	2556.7	2574.5
17.5°	4553.4	4505.9	4044.8	3451.1	2938.6	2594.3	2497.3	2479.5	2505.2	2534.9	2542.8
20°	4618.7	4543.5	3989.4	3160.3	2618.0	2400.4	2394.4	2457.8	2505.2	2548.8	2554.7
22.5°	4755.2	4565.3	3809.3	2885.2	2398.4	2343.0	2400.4	2453.8	2527.0	2562.6	2531.0
25°	4794.8	4517.8	3556.0	2554.7	2259.9	2307.4	2368.7	2441.9	2493.4	2513.2	2527.0
27.5°	4828.4	4444.5	3213.7	2335.1	2216.3	2305.4	2368.7	2430.1	2457.8	2475.6	2491.4
30°	4923.4	4422.8	2916.9	2188.6	2188.6	2265.8	2346.9	2362.8	2400.4	2422.1	2449.8
32.5°	4970.9	4272.4	2612.1	2095.6	2160.9	2285.6	2291.5	2321.2	2323.2	2341.0	2311.3
35°	5095.6	4165.5	2329.1	2028.3	2172.8	2265.8	2295.5	2277.7	2180.7	2133.2	2143.1
37.5°	5186.6	4112.1	2125.3	2020.4	2174.8	2287.6	2303.4	2168.8	2067.9	1988.8	2008.6
40°	5432.0	3979.5	1971.0	2006.6	2192.6	2311.3	2267.8	2121.3	1939.3	1858.2	1844.3
42.5°	5620.0	3884.5	1874.0	1990.7	2206.4	2345.0	2250.0	2026.4	1840.3	1765.2	1784.9
45°	5837.7	3862.8	1822.5	1994.7	2230.2	2362.8	2228.2	1953.1	1755.3	1725.6	1719.6
47.5°	5914.8	3706.4	1767.1	1961.1	2224.2	2356.8	2155.0	1897.7	1723.6	1727.6	1743.4
50°	5786.2	3546.1	1725.6	1891.8	2184.7	2303.4	2040.2	1824.5	1705.8	1755.3	1783.0
52.5°	5622.0	3381.9	1640.5	1798.8	2103.5	2220.3	1986.8	1820.6	1688.0	1672.1	1678.1
55°	5671.4	3247.3	1521.8	1672.1	1972.9	2065.9	1927.4	1783.0	1644.4	1585.1	1604.9
56°	5511.2	3108.8	1444.6	1593.0	1883.9	1967.0	1897.7	1749.3	1608.8	1569.2	1569.2
57.5°	5058.0	2643.8	1343.7	1466.3	1695.9	1794.8	1840.3	1729.5	1569.2	1500.0	1502.0
60°	3730.2	1879.9	1205.1	1292.2	1405.0	1484.2	1695.9	1674.1	1470.3	1422.8	1405.0
62.5°	2299.4	1373.3	1106.2	1139.8	1197.2	1262.5	1480.2	1515.8	1365.4	1314.0	1302.1
65°	1288.2	1050.8	1031.0	1044.8	1072.5	1106.2	1228.9	1308.0	1205.1	1126.0	1122.0
67.5°	941.9	940.0	955.8	967.7	979.5	979.5	1009.2	1040.9	1027.0	963.7	957.8
70°	837.1	843.0	854.9	856.9	860.8	847.0	823.2	813.3	829.1	789.6	781.7
72.5°	690.6	710.4	724.3	726.2	704.5	686.7	655.0	621.4	609.5	601.6	599.6
75°	530.3	544.2	550.1	548.1	540.2	514.5	476.9	443.3	421.5	397.8	409.6
77.5°	358.2	378.0	387.9	387.9	376.0	336.4	318.6	292.9	271.1	245.4	249.3
80°	251.3	265.2	281.0	279.0	259.2	239.4	213.7	190.0	172.2	152.4	150.4
82.5°	188.0	195.9	203.8	199.9	186.0	166.2	148.4	126.6	106.9	93.0	93.0
85°	67.3	73.2	89.0	93.0	100.9	100.9	85.1	71.2	57.4	47.5	47.5
87.5°	19.8	19.8	21.8	21.8	19.8	21.8	17.8	19.8	21.8	13.9	13.9
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)