

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: P530216

Luminaire Tested: **GALN-SA5B-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530216
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18994 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 204
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

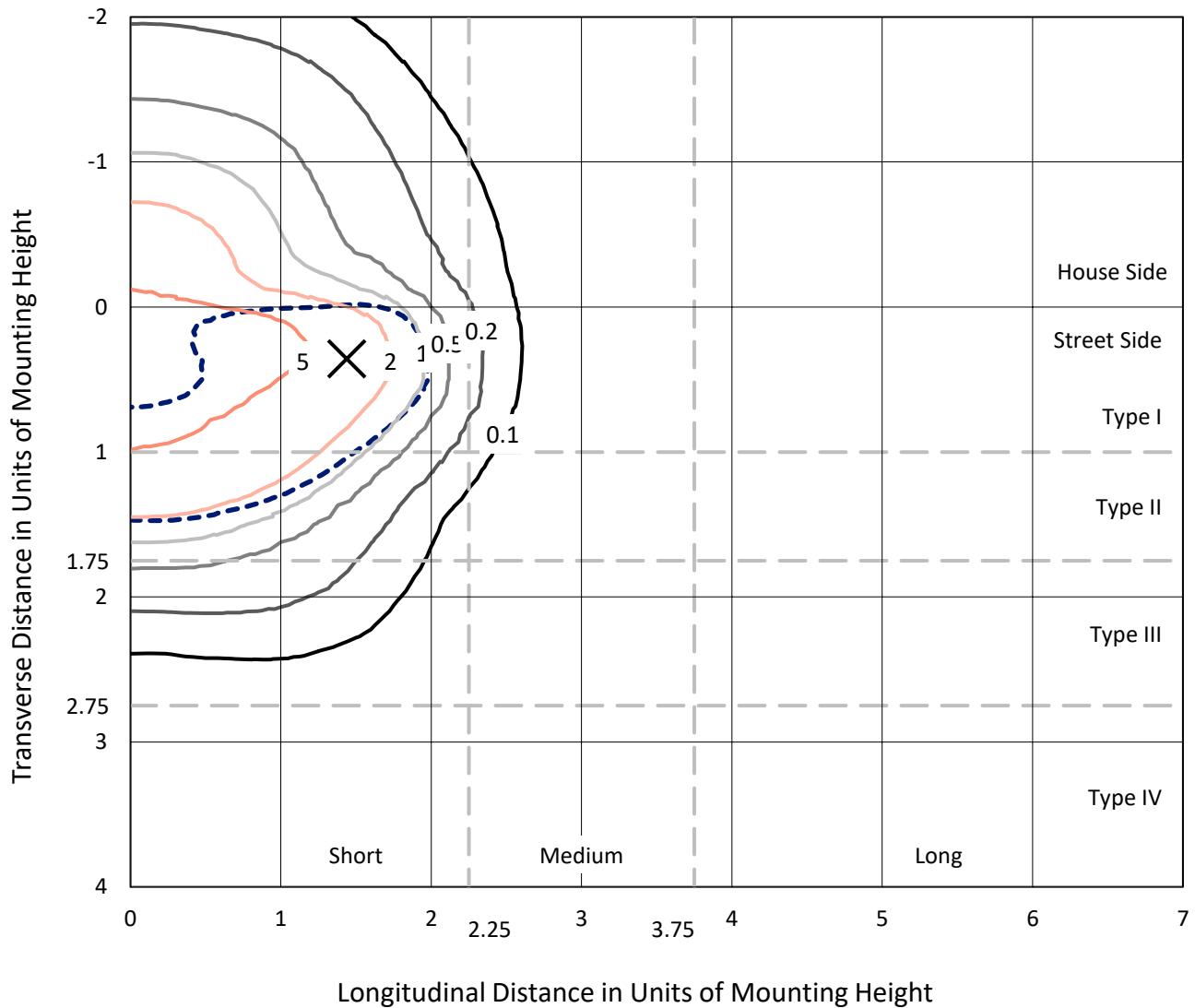


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Iso-Footcandle Lines of Horizontal Illumination

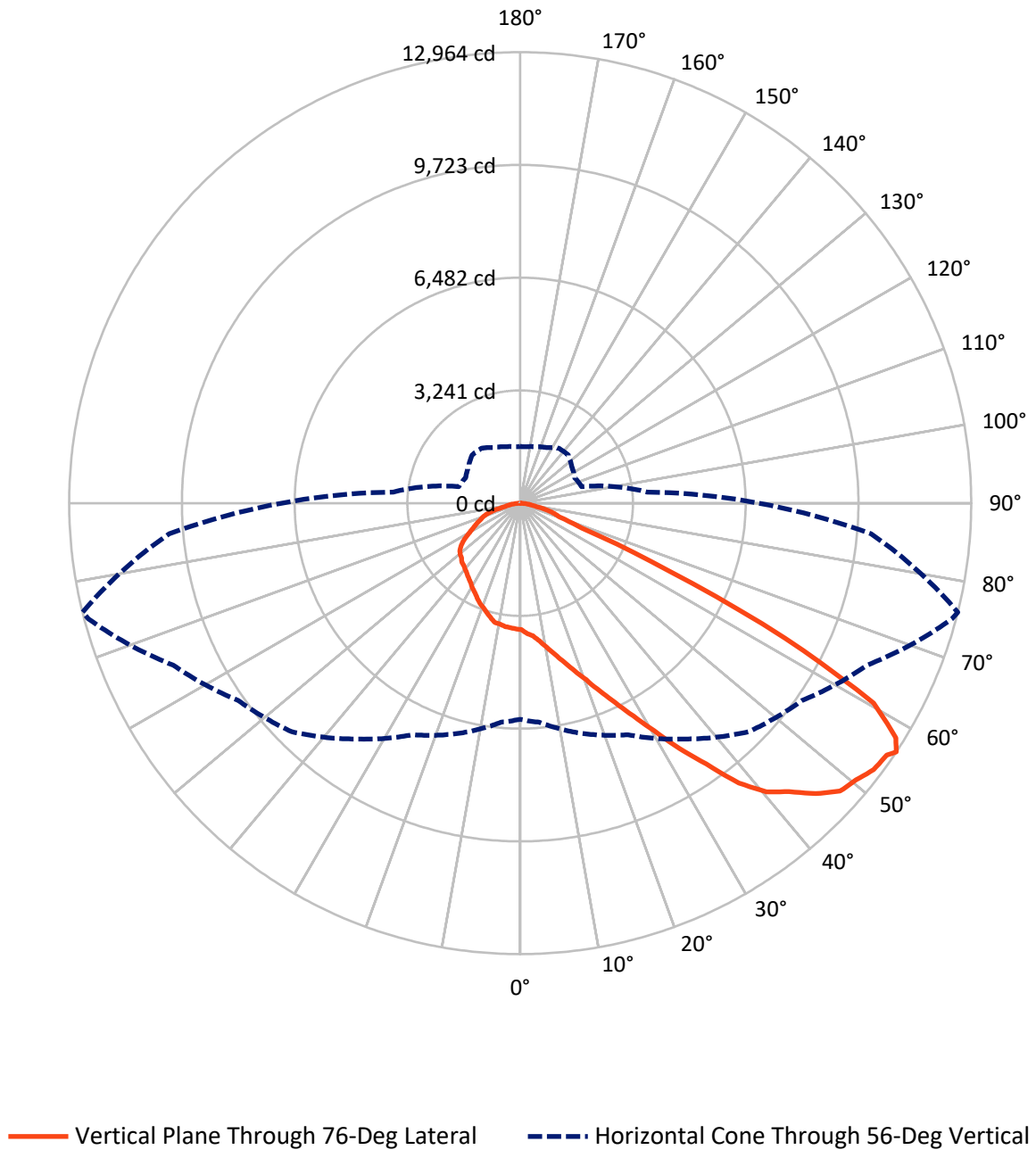
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5106.9	0.0	5106.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13887.1	0.0	13887.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	18994.0	0.0	18994.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.4	1.9
10°-20°	1132.2	6.0
20°-30°	1980.0	10.4
30°-40°	3100.1	16.3
40°-50°	4509.8	23.7
50°-60°	4956.5	26.1
60°-70°	2212.4	11.6
70°-80°	639.0	3.4
80°-90°	103.7	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°	18994.0	100.0
0°-180°	18994.0	100.0

Coefficient of Utilization



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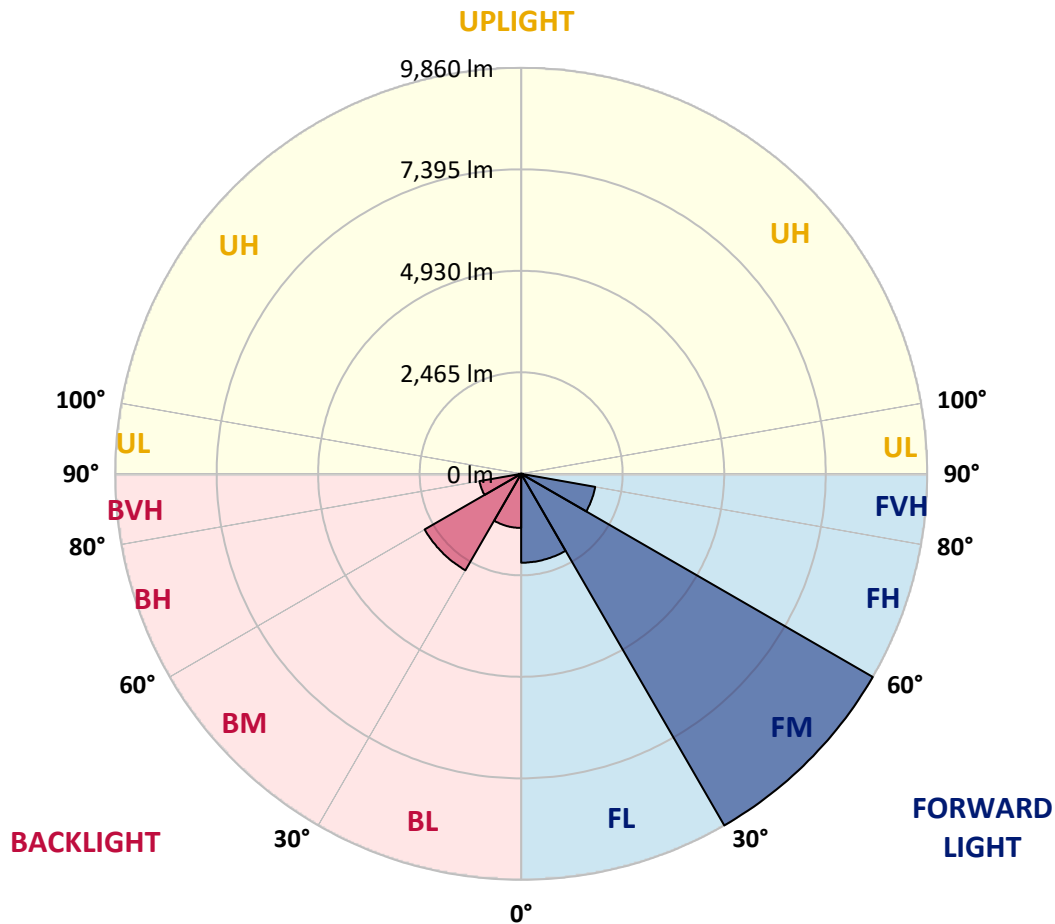
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2158.5	11.4			
FM	(30°-60°)	9860.1	51.9			
FH	(60°-80°)	1823.9	9.6			G2/5000
FVH	(80°-90°)	44.6	0.2			G1/100
BL	(0°-30°)	1314.1	6.9	B3/2500		
BM	(30°-60°)	2706.3	14.2	B3/5000		
BH	(60°-80°)	1027.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	59.0	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3
2.5°	4003.6	3939.6	3934.7	3917.4	3927.3	3882.9	3836.2	3774.6	3710.6	3750.0	3656.4
5°	4284.3	4198.1	4232.6	4173.5	4180.9	4121.8	4025.8	3954.3	3875.6	3828.8	3762.3
7.5°	4382.8	4390.2	4414.8	4404.9	4355.7	4355.7	4291.7	4166.1	4028.2	4001.1	3890.3
10°	4515.7	4518.2	4491.1	4498.5	4567.4	4535.4	4478.8	4424.6	4247.4	4215.3	4018.4
12.5°	4562.5	4518.2	4562.5	4601.9	4683.2	4727.5	4715.2	4675.8	4486.2	4464.0	4175.9
15°	4569.9	4542.8	4579.8	4668.4	4739.8	4926.9	5020.5	4993.4	4742.3	4744.7	4353.2
17.5°	4535.4	4572.4	4587.1	4663.5	4828.4	5003.3	5274.1	5311.0	5104.2	5072.2	4577.3
20°	4582.2	4555.1	4574.8	4643.8	4862.9	5136.2	5490.8	5734.5	5444.0	5421.8	4808.7
22.5°	4762.0	4725.0	4720.1	4764.4	4922.0	5205.2	5719.8	6158.0	5857.7	5870.0	5096.8
25°	4902.3	4922.0	4904.8	4902.3	5000.8	5308.6	6022.6	6662.8	6419.0	6347.6	5436.6
27.5°	5143.6	5190.4	5155.9	5202.7	5180.5	5463.7	6239.3	7221.7	7024.8	6928.7	5744.4
30°	5478.5	5503.1	5471.1	5471.1	5404.6	5680.4	6436.3	7805.3	7724.0	7593.5	6106.3
32.5°	5919.2	5956.1	5892.1	5855.2	5845.3	6002.9	6790.8	8381.4	8519.3	8408.5	6586.5
35°	6502.8	6480.6	6404.3	6369.8	6236.8	6497.8	7317.8	9043.8	9405.7	9208.8	7167.6
37.5°	7017.4	6982.9	6978.0	6785.9	6817.9	7032.1	7765.9	9546.1	10265.1	10208.4	7780.7
40°	7497.5	7529.5	7581.2	7472.9	7423.6	7660.0	8287.9	9930.2	10932.3	10910.2	8253.4
42.5°	8012.1	7982.6	8073.7	7982.6	7908.7	8243.6	8854.2	10196.1	11518.3	11336.1	8748.3
45°	8758.2	8664.6	8696.6	8704.0	8649.8	8772.9	9088.1	10388.2	11929.5	11909.8	9110.3
47.5°	9381.1	9383.6	9329.4	9287.5	9122.6	9245.7	9349.1	10508.8	12402.3	12370.3	9250.6
50°	9612.6	9580.6	9738.1	9829.2	9839.1	9587.9	9553.5	10575.3	12651.0	12510.6	9391.0
52.5°	8780.3	8809.9	9058.6	9600.3	9913.0	9940.0	9792.3	10713.2	12751.9	12722.4	9504.2
55°	7066.6	7209.4	7618.2	8243.6	8984.7	9799.7	10050.8	10856.0	12806.1	12781.5	10006.5
56°	6212.2	6323.0	6854.9	7344.8	8275.6	9290.0	9888.3	11008.7	12847.9	12963.7	10124.7
57.5°	5000.8	5128.8	5510.5	6066.9	7165.1	8319.9	9440.2	10821.5	12685.4	12729.8	10210.9
60°	3127.0	3139.3	3597.3	3964.2	4737.3	5865.0	7204.5	9415.6	11739.9	11675.9	9171.8
62.5°	2051.0	2053.5	2469.6	2770.0	3122.1	3380.6	4240.0	6244.2	8662.1	8548.9	6529.8
65°	1440.4	1472.4	1795.0	2196.3	2339.1	2203.7	2176.6	3292.0	4838.3	4675.8	3508.7
67.5°	1053.8	1056.3	1341.9	1772.8	1979.6	1676.8	1361.6	1607.8	1915.6	1910.7	1625.1
70°	696.8	726.4	945.5	1324.7	1561.1	1346.8	1112.9	1149.9	1218.8	1218.8	1209.0
72.5°	406.3	433.4	578.6	839.6	876.6	842.1	881.5	984.9	1029.2	1026.8	1014.4
75°	231.5	243.8	275.8	349.6	435.8	514.6	647.6	746.1	790.4	817.5	785.5
77.5°	135.4	142.8	162.5	199.4	226.5	278.2	352.1	421.0	480.1	472.7	477.7
80°	71.4	71.4	91.1	118.2	157.6	197.0	233.9	273.3	305.3	312.7	320.1
82.5°	41.9	44.3	59.1	86.2	113.3	140.3	179.7	206.8	236.4	238.8	243.8
85°	22.2	24.6	36.9	56.6	76.3	86.2	88.6	83.7	91.1	86.2	98.5
87.5°	7.4	7.4	12.3	9.8	9.8	12.3	14.8	14.8	19.7	19.7	19.7
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°	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3	3634.3
2.5°	3654.0	3654.0	3612.1	3533.3	3521.0	3489.0	3459.4	3457.0	3434.8	3415.1	3405.3
5°	3722.9	3646.6	3585.0	3513.6	3429.9	3390.5	3346.2	3296.9	3277.2	3296.9	3294.5
7.5°	3801.7	3737.7	3553.0	3420.0	3324.0	3284.6	3235.4	3183.7	3188.6	3188.6	3154.1
10°	3878.0	3791.8	3496.4	3326.5	3186.1	3156.6	3129.5	3149.2	3173.8	3178.7	3156.6
12.5°	4006.1	3811.5	3469.3	3232.9	3144.3	3080.3	3097.5	3151.7	3203.4	3188.6	3205.8
15°	4102.1	3828.8	3346.2	3136.9	3026.1	3055.6	3117.2	3154.1	3240.3	3230.5	3247.7
17.5°	4195.6	3838.6	3225.5	3008.9	2962.1	3043.3	3090.1	3196.0	3223.1	3282.2	3304.3
20°	4387.7	3858.3	3102.4	2930.1	2915.3	3008.9	3090.1	3139.3	3198.4	3250.1	3250.1
22.5°	4486.2	3848.5	3021.2	2826.6	2873.4	2932.5	3006.4	3090.1	3090.1	3139.3	3141.8
25°	4609.3	3809.1	2893.1	2777.4	2811.9	2868.5	2952.2	2922.7	2954.7	2954.7	2994.1
27.5°	4749.7	3725.4	2782.3	2688.8	2757.7	2819.3	2831.6	2811.9	2774.9	2770.0	2755.2
30°	4862.9	3621.9	2701.1	2659.2	2715.8	2750.3	2710.9	2669.1	2605.0	2600.1	2565.6
32.5°	5018.0	3493.9	2600.1	2585.3	2649.4	2651.8	2639.5	2575.5	2481.9	2442.5	2403.1
35°	5279.0	3420.0	2523.8	2546.0	2565.6	2558.3	2536.1	2467.2	2373.6	2356.4	2341.6
37.5°	5471.1	3365.9	2445.0	2472.1	2489.3	2499.2	2432.7	2356.4	2358.8	2324.3	2314.5
40°	5687.8	3331.4	2381.0	2393.3	2395.8	2427.8	2346.5	2309.6	2326.8	2304.7	2319.4
42.5°	5966.0	3341.3	2314.5	2304.7	2351.4	2339.1	2299.7	2250.5	2260.3	2193.9	2203.7
45°	6113.7	3407.7	2275.1	2230.8	2282.5	2280.0	2228.3	2181.5	2122.4	1994.4	1999.3
47.5°	6212.2	3425.0	2181.5	2152.0	2206.2	2238.2	2179.1	2070.7	1987.0	1895.9	1873.8
50°	6313.2	3457.0	2137.2	2075.7	2097.8	2174.2	2100.3	1996.9	1915.6	1834.4	1846.7
52.5°	6401.8	3518.5	2051.0	1959.9	1999.3	2083.1	2043.7	1918.1	1829.4	1763.0	1743.3
55°	6795.8	3656.4	1905.8	1787.6	1881.1	1987.0	1964.9	1812.2	1716.2	1681.7	1676.8
56°	6857.3	3661.3	1829.4	1728.5	1814.7	1955.0	1927.9	1765.4	1679.2	1625.1	1627.5
57.5°	6867.2	3602.2	1721.1	1674.3	1748.2	1908.2	1873.8	1728.5	1610.3	1561.1	1546.3
60°	6042.3	2811.9	1585.7	1556.1	1642.3	1765.4	1753.1	1627.5	1494.6	1437.9	1465.0
62.5°	4119.3	2060.9	1479.8	1474.9	1519.2	1639.8	1607.8	1494.6	1383.8	1346.8	1329.6
65°	2398.2	1563.5	1376.4	1356.7	1393.6	1457.6	1479.8	1361.6	1245.9	1221.3	1213.9
67.5°	1415.8	1292.7	1243.4	1211.4	1199.1	1238.5	1255.7	1186.8	1071.1	1036.6	1066.1
70°	1184.3	1149.9	1152.3	1098.2	1068.6	1041.5	1026.8	965.2	869.2	824.8	812.5
72.5°	1021.8	1007.1	997.2	948.0	920.9	859.3	795.3	733.7	662.3	625.4	627.9
75°	780.5	775.6	780.5	755.9	709.1	659.9	600.8	522.0	467.8	421.0	430.9
77.5°	465.4	480.1	487.5	477.7	458.0	413.7	376.7	325.0	273.3	236.4	231.5
80°	320.1	332.4	344.7	332.4	312.7	280.7	241.3	201.9	165.0	145.3	140.3
82.5°	243.8	256.1	263.5	251.1	226.5	192.1	165.0	137.9	108.3	88.6	83.7
85°	88.6	101.0	98.5	118.2	128.0	123.1	105.9	81.3	61.6	44.3	41.9
87.5°	24.6	22.2	24.6	24.6	24.6	22.2	19.7	19.7	19.7	12.3	9.8
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)