

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: P529284

Luminaire Tested: **GALN-SA4B-830-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529284
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4B-830-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15250 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 164
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

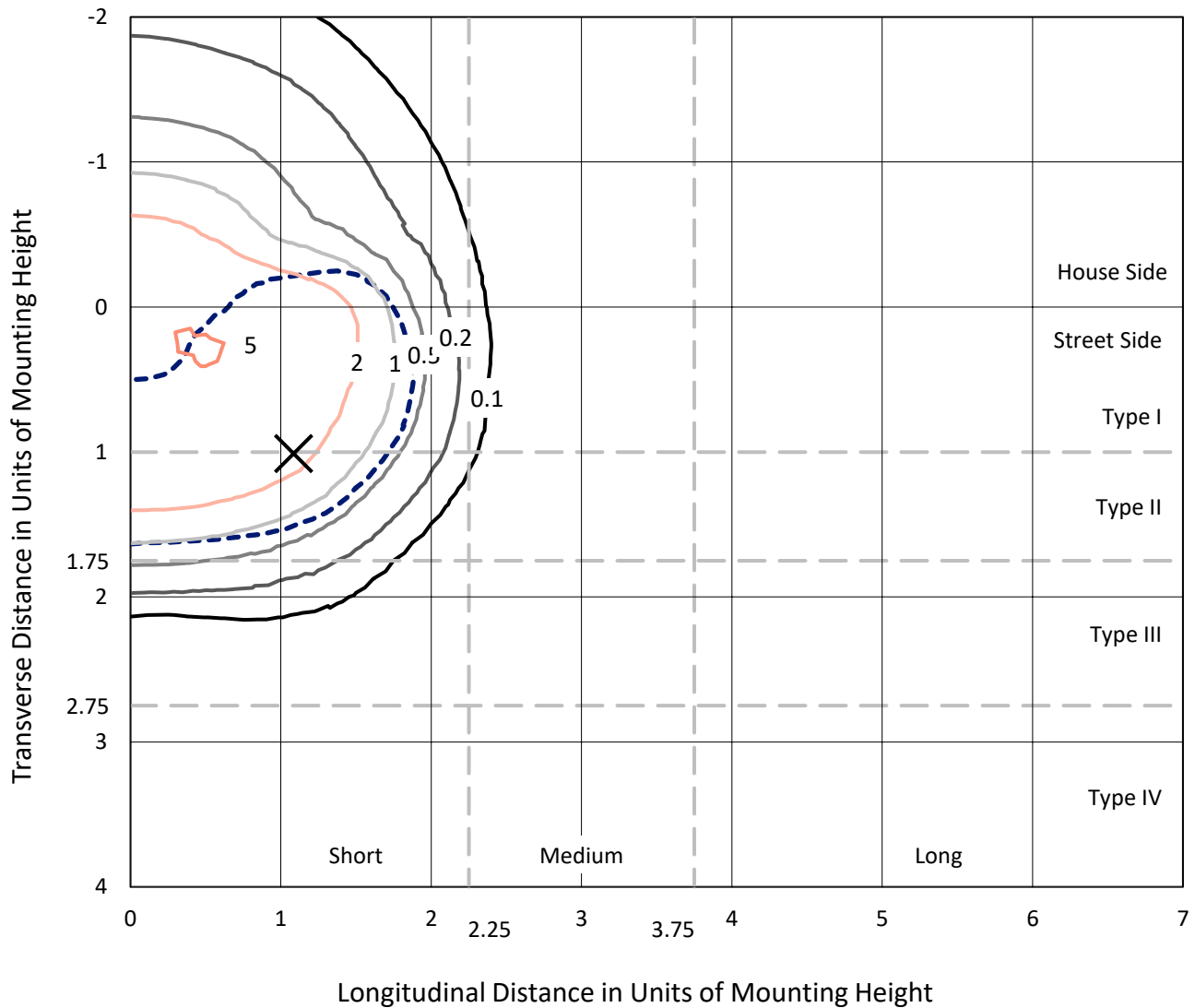


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Iso-Footcandle Lines of Horizontal Illumination

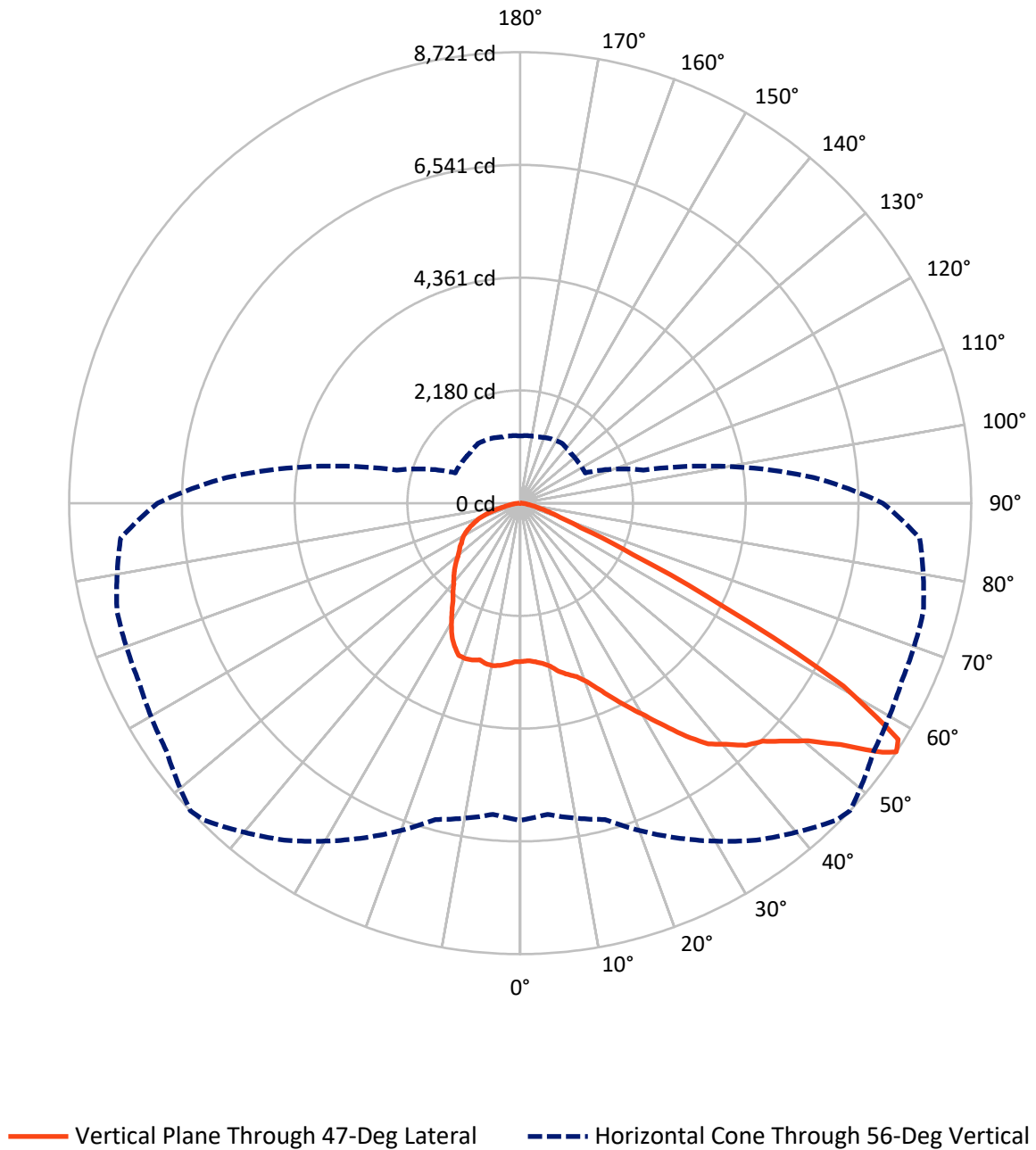
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	4832.5	0.0	4832.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	10417.5	0.0	10417.5
	% Fixture	68.3	0.0	68.3
Total	Lumens	15250.0	0.0	15250.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	2.0
10°-20°	941.5	6.2
20°-30°	1664.4	10.9
30°-40°	2499.9	16.4
40°-50°	3430.8	22.5
50°-60°	4087.4	26.8
60°-70°	1749.2	11.5
70°-80°	495.0	3.2
80°-90°	83.3	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°	15250.0	100.0
0°-180°	15250.0	100.0

Coefficient of Utilization



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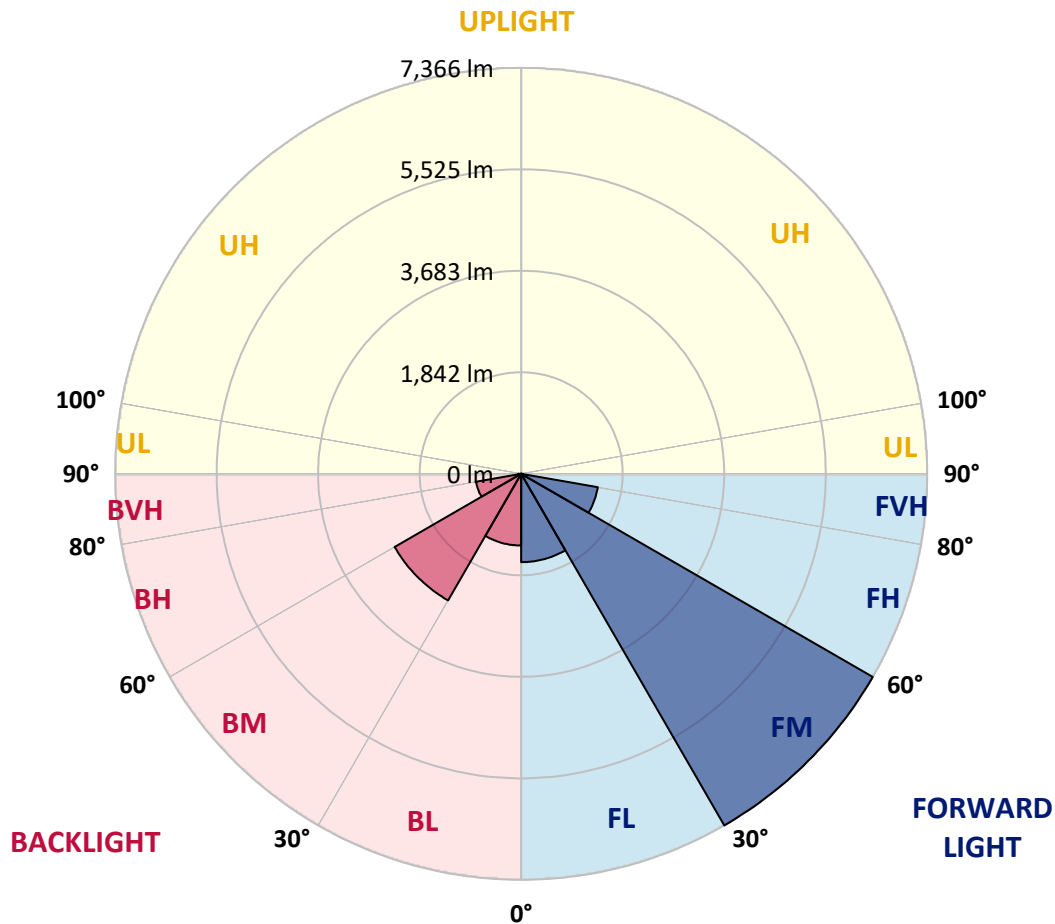
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1603.3	10.5			
FM	(30°-60°)	7366.1	48.3			
FH	(60°-80°)	1412.7	9.3			G1/1800
FVH	(80°-90°)	35.4	0.2			G1/100
BL	(0°-30°)	1301.1	8.5	B3/2500		
BM	(30°-60°)	2652.0	17.4	B3/5000		
BH	(60°-80°)	831.5	5.5	B2/1000		G2/1000
BVH	(80°-90°)	47.9	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°	47°	55°	65°	75°	85°
0°	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3
2.5°	3051.6	3045.8	3041.9	3073.0	3061.3	3063.3	3051.6	3063.3	3071.0	3053.5	3078.8
5°	3045.8	3063.3	3047.7	3057.4	3082.7	3074.9	3082.7	3106.1	3100.2	3094.4	3086.6
7.5°	3100.2	3102.2	3113.8	3117.7	3125.5	3117.7	3129.4	3150.8	3144.9	3111.9	3115.8
10°	3178.0	3181.9	3183.8	3205.2	3218.9	3220.8	3207.2	3187.7	3185.8	3230.5	3199.4
12.5°	3267.5	3257.8	3281.1	3288.9	3304.4	3321.9	3339.4	3298.6	3323.9	3325.8	3288.9
15°	3397.8	3407.5	3380.3	3380.3	3386.1	3388.1	3436.7	3417.2	3413.3	3392.0	3407.5
17.5°	3592.3	3526.2	3524.2	3497.0	3493.1	3508.7	3526.2	3541.7	3594.2	3551.4	3467.8
20°	3734.3	3749.8	3693.4	3660.4	3666.2	3701.2	3683.7	3753.7	3790.7	3720.6	3639.0
22.5°	3985.2	3932.6	3946.3	3872.4	3878.2	3915.1	3913.2	3985.2	4006.6	3895.7	3777.1
25°	4154.4	4140.8	4152.4	4094.1	4101.9	4131.0	4177.7	4296.3	4261.3	4138.8	3864.6
27.5°	4401.4	4374.1	4364.4	4343.0	4335.2	4413.0	4467.5	4593.9	4568.6	4389.7	4020.2
30°	4654.2	4636.7	4646.4	4558.9	4590.0	4755.3	4770.9	4944.0	4932.3	4617.3	4193.3
32.5°	4829.3	4839.0	4856.5	4807.9	4946.0	5078.2	5130.7	5327.2	5336.9	5008.2	4527.8
35°	5111.3	5078.2	5087.9	5144.3	5208.5	5449.7	5535.3	5665.6	5747.3	5418.6	4848.7
37.5°	5288.3	5323.3	5282.4	5371.9	5539.2	5828.9	5906.7	6040.9	6126.5	5823.1	5286.3
40°	5564.4	5508.0	5537.2	5601.4	5772.5	6149.9	6128.5	6266.6	6293.8	6167.4	5694.7
42.5°	5862.0	5834.8	5793.9	5939.8	6083.7	6358.0	6400.8	6336.6	6474.7	6503.8	6278.2
45°	6217.9	6251.0	6256.8	6260.7	6387.1	6626.4	6568.0	6511.6	6671.1	6883.1	6640.0
47.5°	6548.6	6443.5	6519.4	6624.4	6803.4	6805.3	6873.4	6739.2	6908.4	7097.0	6966.7
50°	6659.4	6608.9	6710.0	6908.4	7184.6	7213.7	7221.5	7030.9	7118.4	7268.2	7079.5
52.5°	6616.6	6599.1	6857.8	7165.1	7569.7	7717.5	7756.4	7521.0	7569.7	7501.6	7328.5
55°	6412.4	6464.9	6725.6	7351.8	7972.3	8429.3	8503.2	8205.7	7896.4	7948.9	7758.3
56°	6132.4	6040.9	6332.7	7139.8	7954.8	8660.8	8721.1	8349.6	8139.5	8071.5	7754.4
57.5°	5202.7	5084.0	5467.2	6424.1	7513.3	8573.2	8618.0	8409.9	8098.7	7960.6	7188.5
60°	3045.8	3104.1	3590.3	4430.5	5795.9	7029.0	7178.7	7330.4	7122.3	6503.8	5350.5
62.5°	1470.4	1433.4	1781.6	2540.1	3532.0	4486.9	4442.2	4868.2	5101.5	4621.1	3378.3
65°	770.2	766.3	972.5	1386.7	1941.0	2357.3	2398.1	2627.6	2948.5	2380.6	1715.4
67.5°	566.0	581.5	684.6	974.4	1248.6	1273.9	1268.1	1382.8	1414.0	1196.1	1054.2
70°	443.4	451.2	527.1	741.0	929.7	832.4	814.9	828.5	920.0	958.8	912.2
72.5°	320.9	328.7	392.9	499.8	581.5	567.9	579.6	655.4	768.2	809.1	760.5
75°	213.9	219.8	254.8	305.4	344.3	371.5	392.9	480.4	585.4	608.8	585.4
77.5°	147.8	153.6	177.0	215.9	219.8	237.3	245.1	285.9	350.1	379.3	363.7
80°	83.6	83.6	95.3	110.9	136.1	159.5	163.4	196.4	225.6	245.1	249.0
82.5°	38.9	40.8	50.6	68.1	89.5	110.9	114.8	136.1	157.5	177.0	182.8
85°	19.4	21.4	29.2	40.8	54.5	66.1	64.2	66.1	70.0	66.1	68.1
87.5°	5.8	5.8	7.8	9.7	7.8	9.7	9.7	11.7	13.6	15.6	17.5
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°	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3	3063.3
2.5°	3080.8	3086.6	3047.7	3084.7	3071.0	3069.1	3096.3	3092.4	3102.2	3098.3	3074.9
5°	3082.7	3069.1	3109.9	3073.0	3090.5	3127.4	3102.2	3160.5	3131.3	3150.8	3108.0
7.5°	3143.0	3146.9	3139.1	3154.7	3146.9	3164.4	3150.8	3164.4	3141.1	3143.0	3181.9
10°	3195.5	3183.8	3197.5	3178.0	3191.6	3185.8	3154.7	3144.9	3152.7	3143.0	3168.3
12.5°	3292.8	3271.4	3261.6	3238.3	3222.7	3164.4	3115.8	3088.5	3125.5	3131.3	3119.7
15°	3392.0	3393.9	3349.2	3296.7	3199.4	3111.9	3123.6	3133.3	3133.3	3148.8	3119.7
17.5°	3454.2	3454.2	3413.3	3308.3	3209.1	3158.6	3146.9	3115.8	3088.5	3084.7	3082.7
20°	3563.1	3530.0	3436.7	3306.4	3205.2	3181.9	3094.4	3020.5	2964.1	2944.6	2942.7
22.5°	3687.6	3604.0	3473.6	3310.3	3199.4	3166.3	3003.0	2892.1	2791.0	2748.2	2754.0
25°	3802.3	3668.1	3495.0	3292.8	3178.0	3018.5	2835.7	2682.1	2577.0	2542.0	2524.5
27.5°	3882.1	3736.2	3495.0	3308.3	3098.3	2853.2	2666.5	2470.1	2378.6	2355.3	2359.2
30°	3989.0	3821.8	3555.3	3275.3	2938.8	2639.3	2415.6	2287.2	2232.8	2213.3	2226.9
32.5°	4239.9	4045.5	3639.0	3195.5	2750.1	2425.3	2244.4	2172.5	2092.7	2053.8	2040.2
35°	4512.2	4257.4	3720.6	3061.3	2538.1	2230.8	2118.0	2051.9	1956.6	1913.8	1921.6
37.5°	4897.3	4529.7	3726.5	2839.6	2308.6	2121.9	2018.8	1915.8	1838.0	1771.8	1752.4
40°	5416.6	4901.2	3712.9	2606.2	2123.9	1993.6	1917.7	1789.3	1701.8	1655.1	1664.9
42.5°	5873.7	5336.9	3656.5	2341.7	1956.6	1906.0	1820.5	1694.0	1608.5	1559.8	1555.9
45°	6258.8	5657.8	3549.5	2116.1	1816.6	1808.8	1709.6	1612.3	1544.3	1499.5	1519.0
47.5°	6614.7	5916.5	3388.1	1890.5	1688.2	1703.8	1608.5	1548.2	1505.4	1464.5	1462.6
50°	6743.1	5912.6	3246.1	1703.8	1585.1	1577.3	1573.4	1509.3	1464.5	1429.5	1445.1
52.5°	6957.0	5978.7	3092.4	1575.4	1491.8	1493.7	1507.3	1460.6	1410.1	1388.7	1408.1
55°	7264.3	5988.4	2754.0	1425.6	1414.0	1427.6	1427.6	1396.5	1353.7	1336.2	1326.4
56°	7013.4	5698.6	2470.1	1386.7	1375.1	1375.1	1412.0	1377.0	1324.5	1310.9	1299.2
57.5°	6468.8	4992.6	2067.5	1340.1	1322.6	1349.8	1369.2	1332.3	1283.7	1264.2	1275.9
60°	4461.7	3378.3	1554.0	1238.9	1238.9	1283.7	1299.2	1244.8	1223.4	1221.4	1205.9
62.5°	2604.3	1968.3	1215.6	1147.5	1151.4	1188.4	1200.0	1168.9	1141.7	1174.7	1190.3
65°	1380.9	1174.7	1042.5	1050.3	1052.2	1081.4	1131.9	1130.0	1128.1	1137.8	1139.7
67.5°	999.7	976.4	947.2	939.4	943.3	964.7	1015.3	1054.2	1052.2	1028.9	1011.4
70°	890.8	857.7	840.2	842.2	826.6	851.9	892.7	918.0	873.3	846.0	834.4
72.5°	741.0	731.3	719.6	721.6	690.4	684.6	637.9	637.9	626.3	618.5	632.1
75°	566.0	562.1	567.9	558.2	525.1	490.1	462.9	437.6	398.7	383.2	375.4
77.5°	357.9	369.5	383.2	361.8	348.1	322.9	295.6	270.3	239.2	221.7	221.7
80°	243.1	252.8	262.6	258.7	243.1	219.8	198.4	171.2	149.8	136.1	134.2
82.5°	184.8	192.5	206.2	190.6	175.0	155.6	138.1	118.6	99.2	83.6	83.6
85°	66.1	75.9	83.6	91.4	97.2	99.2	85.6	70.0	56.4	44.7	42.8
87.5°	17.5	19.4	21.4	19.4	19.4	19.4	21.4	19.4	17.5	13.6	13.6
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)