

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: P528578

Luminaire Tested: **GALN-SA3C-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528578
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-SA3C-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 13989 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

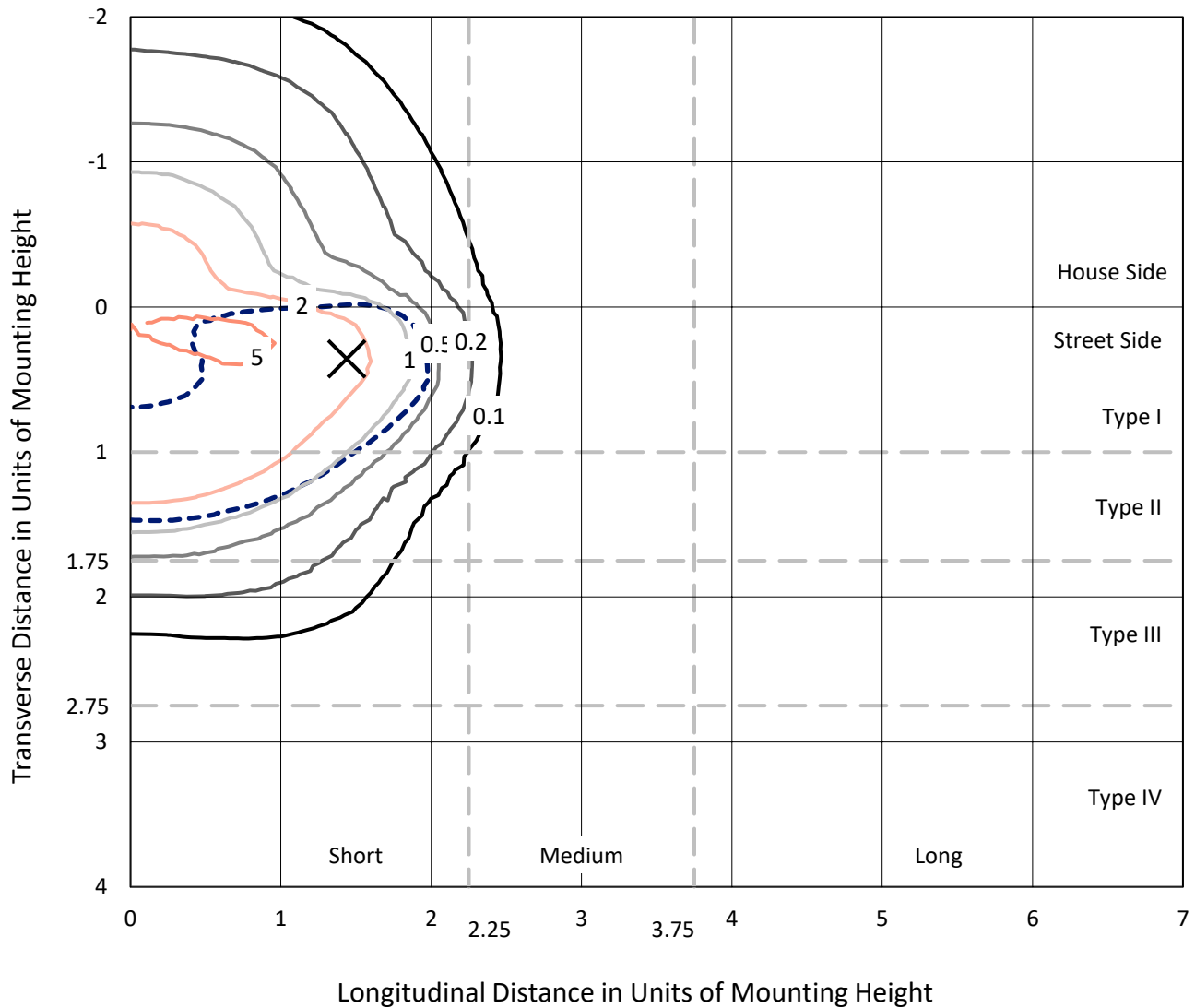
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P528578
 CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

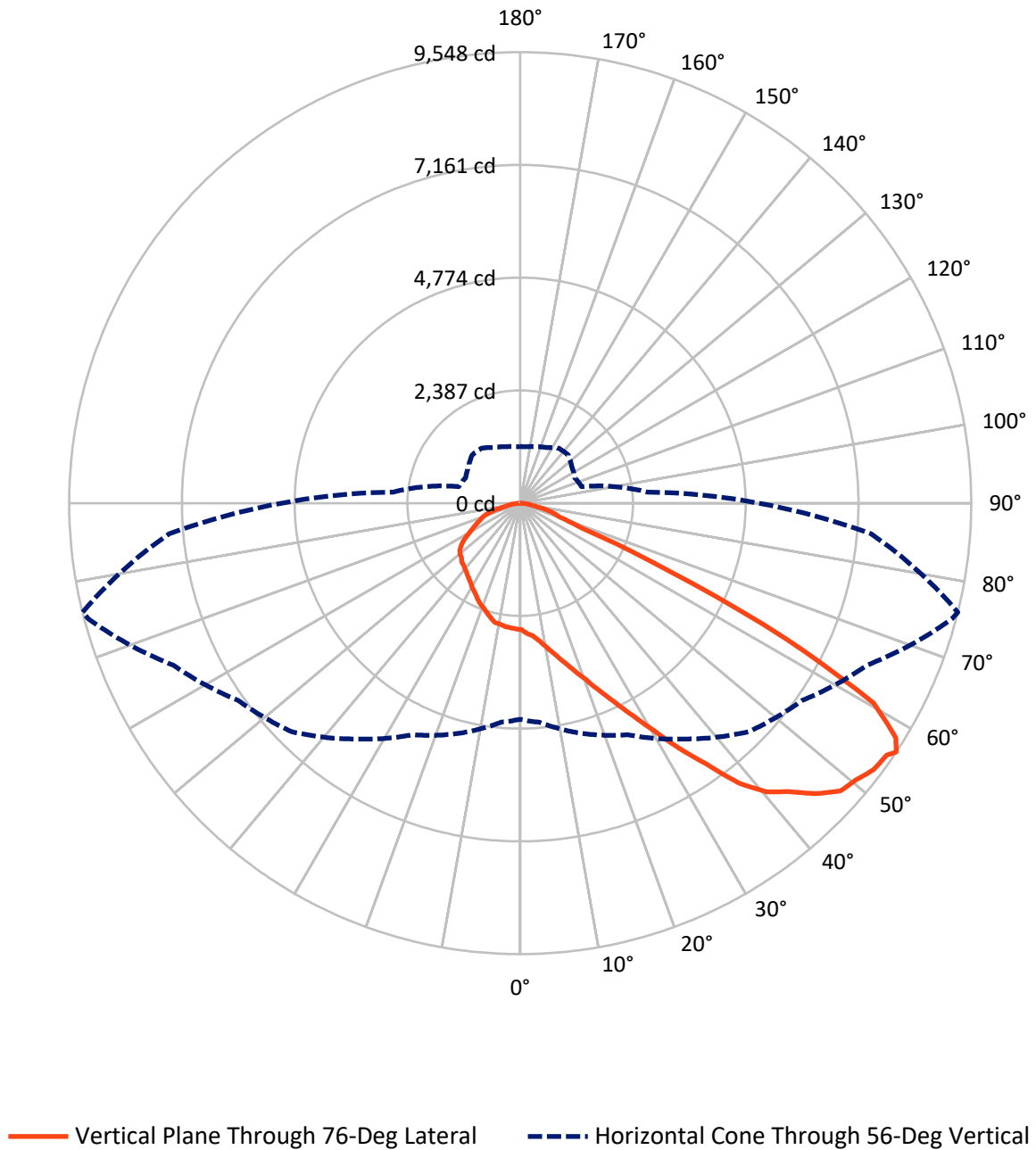
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P528578
CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P528578

CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3761.2	0.0	3761.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	10227.8	0.0	10227.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	13989.0	0.0	13989.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.4	1.9
10°-20°	833.8	6.0
20°-30°	1458.3	10.4
30°-40°	2283.2	16.3
40°-50°	3321.4	23.7
50°-60°	3650.5	26.1
60°-70°	1629.4	11.6
70°-80°	470.6	3.4
80°-90°	76.3	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°	13989.0	100.0
0°-180°	13989.0	100.0

Coefficient of Utilization



REPORT NUMBER: P528578

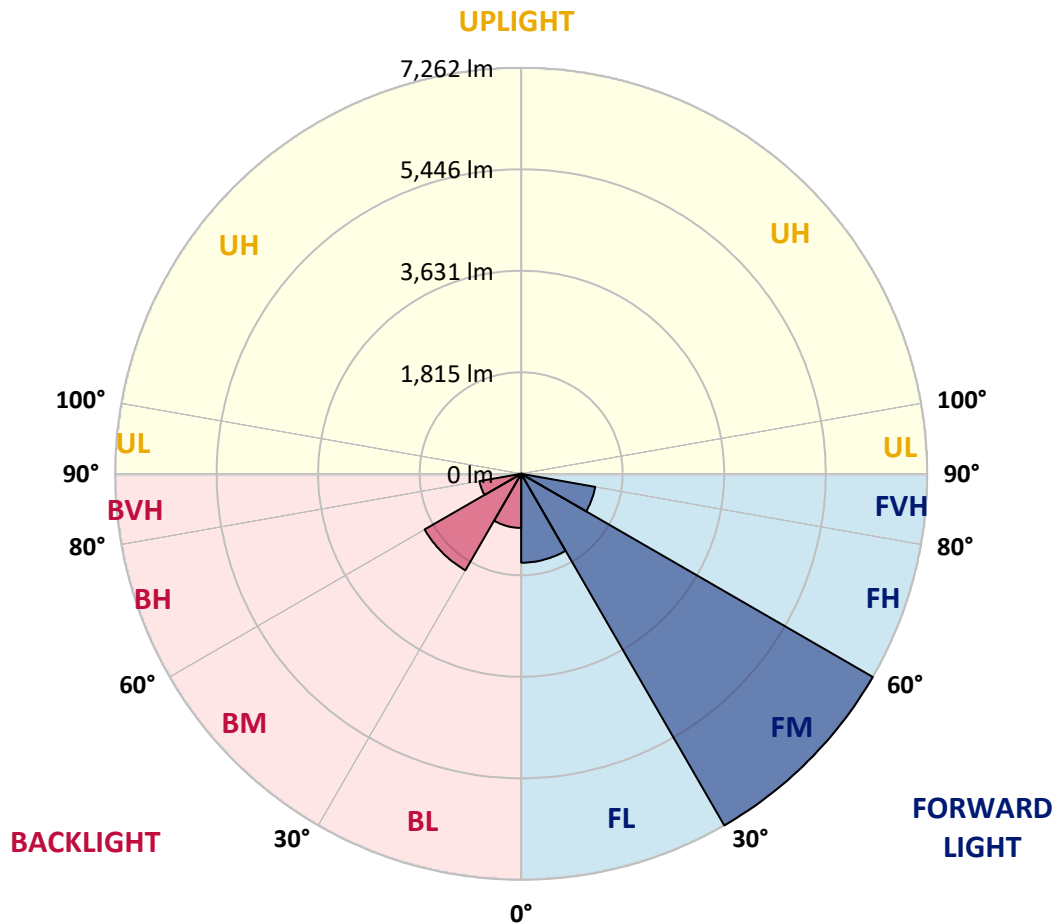
CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1589.7	11.4			
FM	(30°-60°)	7261.9	51.9			
FH	(60°-80°)	1343.3	9.6			G1/1800
FVH	(80°-90°)	32.9	0.2			G1/100
BL	(0°-30°)	967.8	6.9	B2/1000		
BM	(30°-60°)	1993.1	14.2	B2/2500		
BH	(60°-80°)	756.8	5.4	B2/1000		G2/1000
BVH	(80°-90°)	43.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P528578

CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2948.6	2901.5	2897.9	2885.2	2892.4	2859.8	2825.3	2780.0	2732.8	2761.8	2692.9
5°	3155.4	3091.9	3117.3	3073.8	3079.2	3035.7	2965.0	2912.4	2854.3	2819.9	2770.9
7.5°	3227.9	3233.3	3251.5	3244.2	3207.9	3207.9	3160.8	3068.3	2966.8	2946.8	2865.2
10°	3325.8	3327.6	3307.7	3313.1	3363.9	3340.3	3298.6	3258.7	3128.2	3104.6	2959.5
12.5°	3360.3	3327.6	3360.3	3389.3	3449.1	3481.8	3472.7	3443.7	3304.1	3287.7	3075.6
15°	3365.7	3345.8	3373.0	3438.3	3490.8	3628.7	3697.6	3677.6	3492.7	3494.5	3206.1
17.5°	3340.3	3367.5	3378.4	3434.6	3556.1	3684.9	3884.4	3911.6	3759.2	3735.7	3371.2
20°	3374.8	3354.8	3369.3	3420.1	3581.5	3782.8	4043.9	4223.5	4009.5	3993.2	3541.6
22.5°	3507.2	3480.0	3476.3	3509.0	3625.0	3833.6	4212.6	4535.4	4314.1	4323.2	3753.8
25°	3610.5	3625.0	3612.3	3610.5	3683.1	3909.7	4435.6	4907.1	4727.6	4675.0	4004.0
27.5°	3788.2	3822.7	3797.3	3831.8	3815.4	4024.0	4595.2	5318.8	5173.7	5103.0	4230.7
30°	4034.9	4053.0	4029.4	4029.4	3980.5	4183.6	4740.3	5748.6	5688.7	5592.6	4497.3
32.5°	4359.5	4386.7	4339.5	4312.3	4305.1	4421.1	5001.4	6172.9	6274.5	6192.8	4850.9
35°	4789.3	4772.9	4716.7	4691.3	4593.4	4785.6	5389.5	6660.7	6927.3	6782.2	5278.9
37.5°	5168.3	5142.9	5139.2	4997.8	5021.4	5179.1	5719.5	7030.6	7560.2	7518.5	5730.4
40°	5521.9	5545.5	5583.5	5503.7	5467.5	5641.6	6104.0	7313.5	8051.6	8035.3	6078.6
42.5°	5900.9	5879.1	5946.2	5879.1	5824.7	6071.3	6521.1	7509.4	8483.2	8349.0	6443.1
45°	6450.4	6381.4	6405.0	6410.5	6370.6	6461.2	6693.4	7650.8	8786.0	8771.5	6709.7
47.5°	6909.1	6911.0	6871.1	6840.2	6718.7	6809.4	6885.6	7739.7	9134.2	9110.6	6813.0
50°	7079.6	7056.0	7172.1	7239.2	7246.4	7061.5	7036.1	7788.7	9317.4	9214.0	6916.4
52.5°	6466.7	6488.4	6671.6	7070.5	7300.8	7320.8	7212.0	7890.2	9391.7	9370.0	6999.8
55°	5204.5	5309.7	5610.7	6071.3	6617.2	7217.4	7402.4	7995.4	9431.6	9413.5	7369.8
56°	4575.3	4656.9	5048.6	5409.4	6094.9	6842.1	7282.7	8107.8	9462.5	9547.7	7456.8
57.5°	3683.1	3777.4	4058.4	4468.3	5277.1	6127.6	6952.7	7970.0	9342.8	9375.4	7520.3
60°	2303.0	2312.1	2649.4	2919.6	3489.0	4319.6	5306.1	6934.5	8646.4	8599.3	6755.0
62.5°	1510.6	1512.4	1818.9	2040.1	2299.4	2489.8	3122.7	4598.8	6379.6	6296.2	4809.2
65°	1060.9	1084.4	1322.0	1617.6	1722.8	1623.0	1603.1	2424.5	3563.4	3443.7	2584.1
67.5°	776.1	778.0	988.3	1305.7	1458.0	1234.9	1002.8	1184.2	1410.8	1407.2	1196.9
70°	513.2	535.0	696.4	975.6	1149.7	991.9	819.7	846.9	897.6	897.6	890.4
72.5°	299.2	319.2	426.2	618.4	645.6	620.2	649.2	725.4	758.0	756.2	747.1
75°	170.5	179.5	203.1	257.5	321.0	379.0	476.9	549.5	582.1	602.1	578.5
77.5°	99.7	105.2	119.7	146.9	166.8	204.9	259.3	310.1	353.6	348.2	351.8
80°	52.6	52.6	67.1	87.0	116.1	145.1	172.3	201.3	224.9	230.3	235.7
82.5°	30.8	32.6	43.5	63.5	83.4	103.4	132.4	152.3	174.1	175.9	179.5
85°	16.3	18.1	27.2	41.7	56.2	63.5	65.3	61.7	67.1	63.5	72.5
87.5°	5.4	5.4	9.1	7.3	7.3	9.1	10.9	10.9	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P528578

CATALOG NUMBER: GALN-SA3C-830-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6	2676.6
2.5°	2691.1	2691.1	2660.3	2602.3	2593.2	2569.6	2547.9	2546.0	2529.7	2515.2	2508.0
5°	2741.9	2685.7	2640.3	2587.8	2526.1	2497.1	2464.4	2428.2	2413.7	2428.2	2426.4
7.5°	2799.9	2752.8	2616.8	2518.8	2448.1	2419.1	2382.8	2344.8	2348.4	2348.4	2323.0
10°	2856.1	2792.7	2575.1	2449.9	2346.6	2324.8	2304.9	2319.4	2337.5	2341.1	2324.8
12.5°	2950.4	2807.2	2555.1	2381.0	2315.7	2268.6	2281.3	2321.2	2359.3	2348.4	2361.1
15°	3021.2	2819.9	2464.4	2310.3	2228.7	2250.5	2295.8	2323.0	2386.5	2379.2	2391.9
17.5°	3090.1	2827.1	2375.6	2216.0	2181.6	2241.4	2275.8	2353.8	2373.8	2417.3	2433.6
20°	3231.5	2841.6	2284.9	2158.0	2147.1	2216.0	2275.8	2312.1	2355.6	2393.7	2393.7
22.5°	3304.1	2834.4	2225.1	2081.8	2116.3	2159.8	2214.2	2275.8	2275.8	2312.1	2313.9
25°	3394.7	2805.4	2130.8	2045.5	2070.9	2112.6	2174.3	2152.5	2176.1	2176.1	2205.1
27.5°	3498.1	2743.7	2049.2	1980.3	2031.0	2076.4	2085.4	2070.9	2043.7	2040.1	2029.2
30°	3581.5	2667.5	1989.3	1958.5	2000.2	2025.6	1996.6	1965.8	1918.6	1915.0	1889.6
32.5°	3695.8	2573.3	1915.0	1904.1	1951.2	1953.1	1944.0	1896.8	1827.9	1798.9	1769.9
35°	3888.0	2518.8	1858.8	1875.1	1889.6	1884.1	1867.8	1817.1	1748.1	1735.4	1724.6
37.5°	4029.4	2479.0	1800.7	1820.7	1833.4	1840.6	1791.7	1735.4	1737.3	1711.9	1704.6
40°	4189.0	2453.6	1753.6	1762.6	1764.5	1788.0	1728.2	1701.0	1713.7	1697.4	1708.2
42.5°	4393.9	2460.8	1704.6	1697.4	1731.8	1722.8	1693.7	1657.5	1664.7	1615.8	1623.0
45°	4502.7	2509.8	1675.6	1643.0	1681.0	1679.2	1641.1	1606.7	1563.2	1468.9	1472.5
47.5°	4575.3	2522.5	1606.7	1584.9	1624.8	1648.4	1604.9	1525.1	1463.4	1396.3	1380.0
50°	4649.6	2546.0	1574.1	1528.7	1545.0	1601.3	1546.9	1470.7	1410.8	1351.0	1360.1
52.5°	4714.9	2591.4	1510.6	1443.5	1472.5	1534.2	1505.1	1412.7	1347.4	1298.4	1283.9
55°	5005.1	2692.9	1403.6	1316.5	1385.5	1463.4	1447.1	1334.7	1264.0	1238.6	1234.9
56°	5050.4	2696.6	1347.4	1273.0	1336.5	1439.9	1419.9	1300.2	1236.8	1196.9	1198.7
57.5°	5057.6	2653.0	1267.6	1233.1	1287.5	1405.4	1380.0	1273.0	1186.0	1149.7	1138.8
60°	4450.1	2070.9	1167.8	1146.1	1209.6	1300.2	1291.2	1198.7	1100.7	1059.0	1079.0
62.5°	3033.9	1517.8	1089.9	1086.2	1118.9	1207.7	1184.2	1100.7	1019.1	991.9	979.2
65°	1766.3	1151.5	1013.7	999.2	1026.4	1073.5	1089.9	1002.8	917.6	899.5	894.0
67.5°	1042.7	952.0	915.8	892.2	883.1	912.2	924.8	874.1	788.8	763.5	785.2
70°	872.3	846.9	848.7	808.8	787.0	767.1	756.2	710.9	640.1	607.5	598.4
72.5°	752.6	741.7	734.4	698.2	678.2	632.9	585.7	540.4	487.8	460.6	462.4
75°	574.9	571.2	574.9	556.7	522.3	486.0	442.5	384.4	344.6	310.1	317.3
77.5°	342.7	353.6	359.1	351.8	337.3	304.7	277.5	239.4	201.3	174.1	170.5
80°	235.7	244.8	253.9	244.8	230.3	206.7	177.7	148.7	121.5	107.0	103.4
82.5°	179.5	188.6	194.0	185.0	166.8	141.4	121.5	101.6	79.8	65.3	61.7
85°	65.3	74.4	72.5	87.0	94.3	90.7	78.0	59.8	45.3	32.6	30.8
87.5°	18.1	16.3	18.1	18.1	18.1	16.3	14.5	14.5	14.5	9.1	7.3
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)