

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: P529520

Luminaire Tested: **GALN-SA4C-830-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529520
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-SA4C-830-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA 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: 19292 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

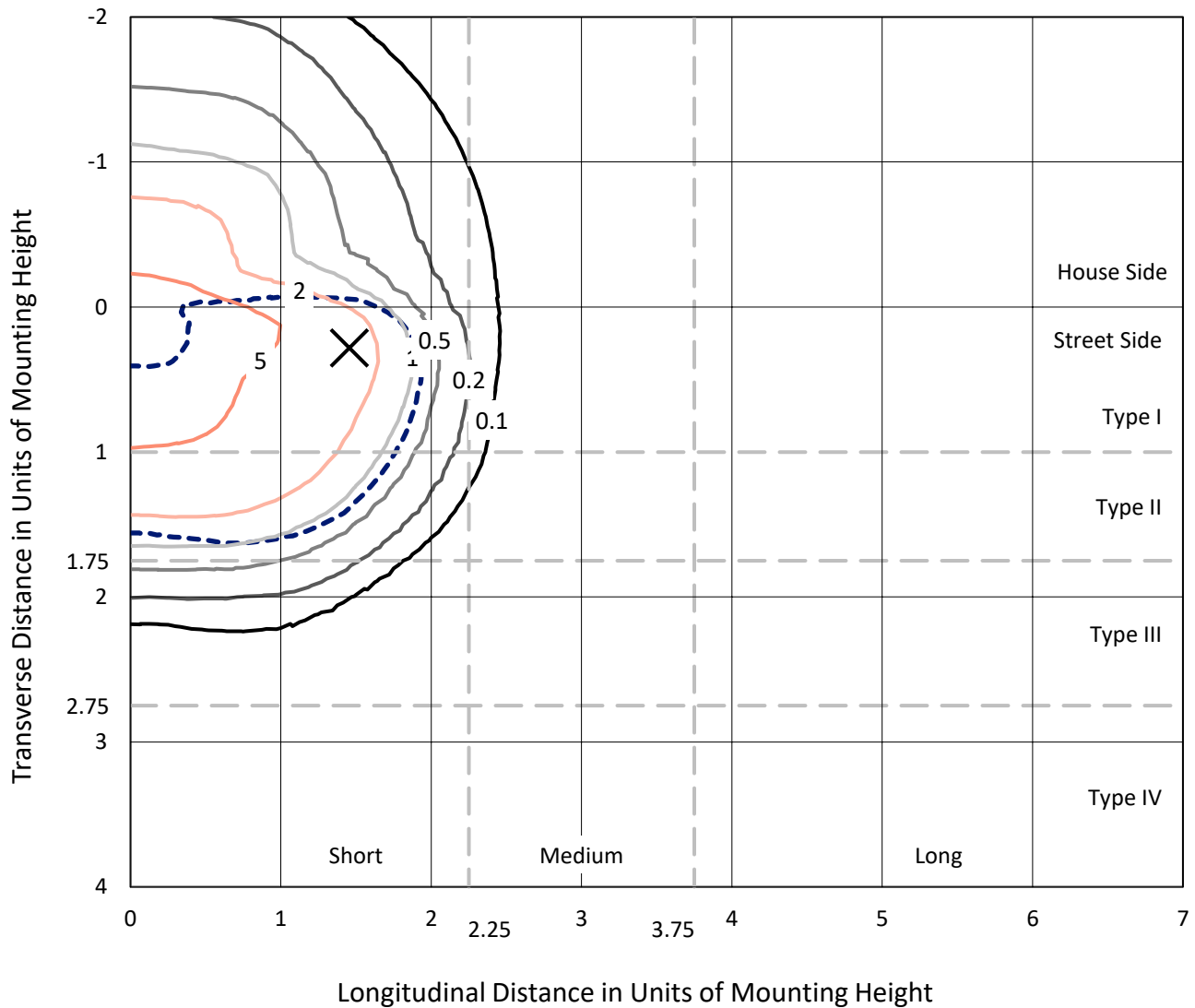
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P529520
 CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

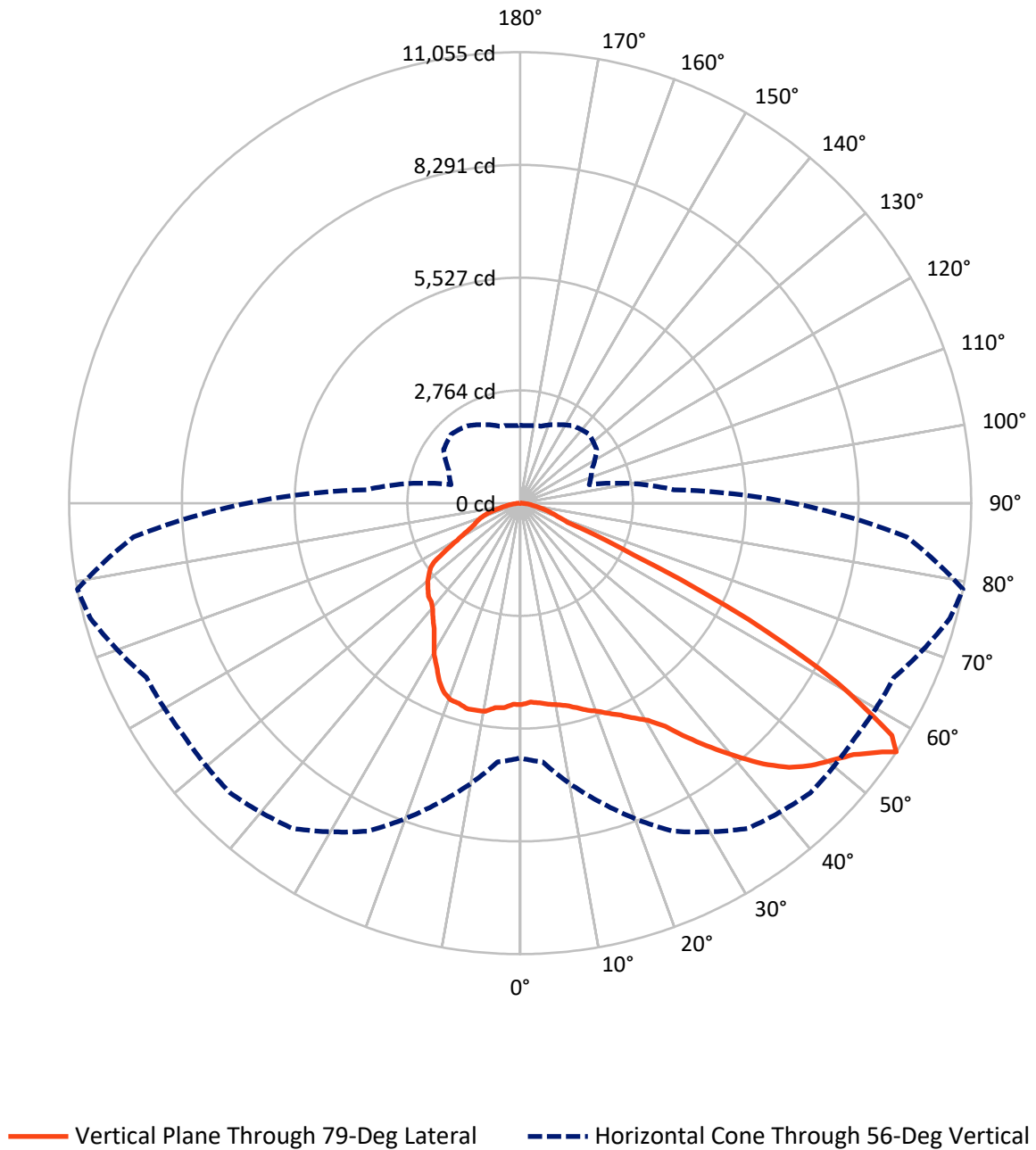
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

REPORT NUMBER: P529520
CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P529520

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5697.3	0.0	5697.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	13594.7	0.0	13594.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	19292.0	0.0	19292.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	2.3
10°-20°	1228.2	6.4
20°-30°	2101.2	10.9
30°-40°	3220.3	16.7
40°-50°	4352.3	22.6
50°-60°	4998.7	25.9
60°-70°	2278.6	11.8
70°-80°	561.8	2.9
80°-90°	102.1	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°	19292.0	100.0
0°-180°	19292.0	100.0

Coefficient of Utilization



REPORT NUMBER: P529520

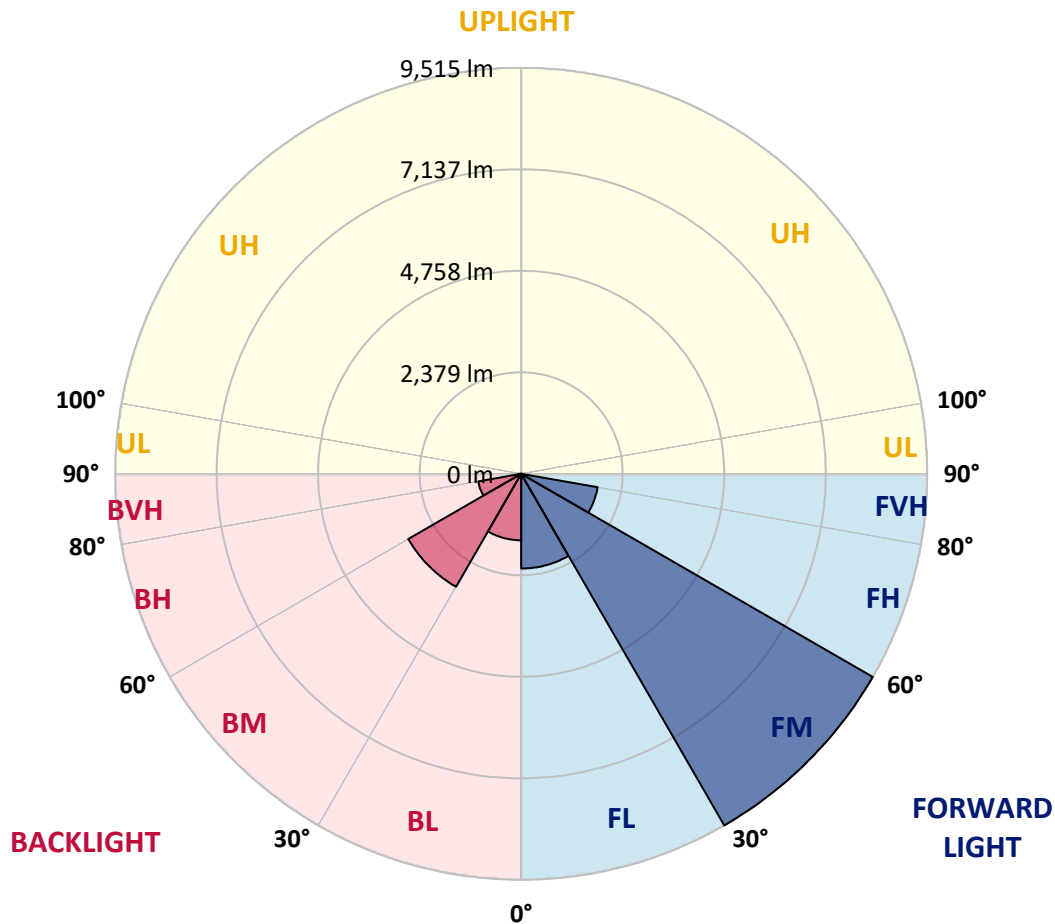
CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2219.7	11.5			
FM	(30°-60°)	9515.4	49.3			
FH	(60°-80°)	1818.8	9.4			G2/5000
FVH	(80°-90°)	40.8	0.2			G1/100
BL	(0°-30°)	1558.5	8.1	B3/2500		
BM	(30°-60°)	3056.0	15.8	B3/5000		
BH	(60°-80°)	1021.6	5.3	B3/2500		G3/2500
BVH	(80°-90°)	61.3	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



REPORT NUMBER: P529520

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1
2.5°	4695.7	4683.7	4712.6	4734.2	4760.6	4794.3	4811.1	4820.7	4904.8	4883.2	4948.1
5°	4594.8	4563.6	4585.2	4602.0	4647.7	4688.5	4734.2	4806.3	4883.2	4916.8	4996.1
7.5°	4505.9	4489.1	4484.3	4496.3	4558.8	4611.6	4690.9	4796.7	4921.6	4976.9	5022.6
10°	4359.3	4335.3	4371.3	4450.6	4467.4	4578.0	4669.3	4820.7	4928.8	5025.0	5159.6
12.5°	4294.4	4270.4	4277.6	4323.3	4441.0	4546.7	4654.9	4825.5	5053.8	5092.3	5272.5
15°	4397.8	4373.7	4380.9	4368.9	4481.9	4537.1	4707.8	4921.6	5140.3	5205.2	5397.5
17.5°	4633.3	4635.7	4604.4	4578.0	4551.6	4669.3	4787.1	4979.3	5174.0	5337.4	5481.6
20°	5082.7	5003.3	4940.9	4791.9	4751.0	4801.5	4950.5	5135.5	5310.9	5445.5	5608.9
22.5°	5428.7	5435.9	5347.0	5101.9	5013.0	5034.6	5162.0	5313.4	5505.6	5601.7	5789.2
25°	5931.0	5880.5	5784.4	5589.7	5390.3	5407.1	5500.8	5637.8	5690.6	5757.9	5962.2
27.5°	6390.0	6404.4	6214.5	6031.9	5784.4	5736.3	5904.5	5928.6	5839.6	5967.0	6036.7
30°	6856.2	6844.2	6719.2	6505.3	6262.6	6272.2	6346.7	6229.0	6106.4	6176.1	6224.1
32.5°	7339.2	7202.2	7197.4	7005.2	6820.1	6731.2	6639.9	6697.6	6507.7	6522.1	6476.5
35°	7726.1	7745.3	7634.8	7497.8	7406.5	7250.3	7000.4	7103.7	7067.6	7050.8	6853.8
37.5°	8007.3	7932.8	7988.1	7942.4	7855.9	7661.2	7401.7	7500.2	7517.0	7598.7	7370.4
40°	8238.0	8206.7	8353.3	8377.4	8317.3	7896.7	7430.5	7723.7	7976.0	8153.9	7882.3
42.5°	8348.5	8415.8	8569.6	8754.7	8620.1	8170.7	7579.5	7894.3	8456.7	8737.8	8367.7
45°	8497.5	8411.0	8639.3	8978.1	8980.6	8401.4	7723.7	8125.0	8831.6	9240.1	8699.4
47.5°	8346.1	8389.4	8624.9	9055.0	9165.6	8644.1	8113.0	8451.9	9244.9	9607.8	9007.0
50°	8007.3	8093.8	8524.0	8970.9	9305.0	8901.2	8560.0	8805.1	9627.0	9903.4	9057.5
52.5°	7654.0	7702.1	8375.0	9035.8	9367.5	9232.9	9158.4	9293.0	10093.2	10237.4	9119.9
55°	6692.8	6921.1	7882.3	9007.0	9672.7	9831.3	9773.6	9970.6	10621.9	10766.1	9461.2
56°	6248.2	6368.3	7586.7	8872.4	9732.7	10050.0	10021.1	10110.0	10903.1	11054.5	9514.0
57.5°	5426.3	5435.9	6469.3	8276.4	9506.8	10114.8	10086.0	10155.7	10847.8	10744.5	9050.2
60°	3395.6	3544.6	4402.6	6365.9	8084.2	9384.3	9547.7	8987.8	9146.4	8927.7	7041.2
62.5°	1759.1	1737.5	2307.0	3722.5	5366.2	6719.2	6870.6	6844.2	6599.0	6279.4	4599.6
65°	877.1	882.0	1206.4	1843.2	2749.2	3518.2	3941.2	3986.8	3335.6	3068.8	2182.1
67.5°	636.8	660.9	867.5	1127.1	1295.3	1449.1	1775.9	1742.3	1319.3	1254.4	1163.1
70°	495.0	516.7	704.1	860.3	781.0	781.0	850.7	879.6	939.6	966.1	997.3
72.5°	360.5	377.3	538.3	593.6	511.9	550.3	636.8	704.1	766.6	776.2	812.3
75°	247.5	261.9	353.3	326.8	307.6	379.7	466.2	528.7	574.4	598.4	620.0
77.5°	161.0	165.8	201.9	170.6	197.1	245.1	302.8	355.7	401.3	420.6	425.4
80°	72.1	79.3	86.5	108.1	137.0	175.4	216.3	259.5	288.4	295.6	310.0
82.5°	40.9	40.9	52.9	76.9	100.9	127.4	156.2	187.4	221.1	228.3	225.9
85°	21.6	21.6	31.2	45.7	62.5	74.5	72.1	74.5	79.3	91.3	88.9
87.5°	7.2	7.2	9.6	9.6	12.0	14.4	12.0	16.8	21.6	21.6	21.6
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: P529520

CATALOG NUMBER: GALN-SA4C-830-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1	4936.1
2.5°	4928.8	4950.5	4921.6	4984.1	4984.1	4972.1	4912.0	4931.3	4945.7	4945.7	4957.7
5°	5022.6	5015.4	5034.6	4960.1	4914.4	4897.6	4799.1	4751.0	4710.2	4707.8	4671.7
7.5°	5075.4	5056.2	5049.0	4993.7	4791.9	4669.3	4457.8	4335.3	4308.8	4215.1	4251.2
10°	5159.6	5195.6	5159.6	4859.2	4578.0	4296.8	4090.2	3900.3	3825.8	3765.7	3729.7
12.5°	5332.6	5315.8	5106.7	4700.6	4306.4	3972.4	3664.8	3465.3	3390.8	3338.0	3333.2
15°	5479.2	5395.1	5075.4	4450.6	3883.5	3527.8	3275.5	3133.7	3100.1	3104.9	3126.5
17.5°	5529.6	5472.0	4912.0	4191.1	3568.7	3150.5	3032.8	3011.1	3042.4	3078.4	3088.0
20°	5608.9	5517.6	4844.7	3837.8	3179.4	2915.0	2907.8	2984.7	3042.4	3095.3	3102.5
22.5°	5774.8	5544.1	4626.1	3503.8	2912.6	2845.3	2915.0	2979.9	3068.8	3112.1	3073.6
25°	5822.8	5486.4	4318.5	3102.5	2744.4	2802.1	2876.6	2965.5	3028.0	3052.0	3068.8
27.5°	5863.7	5397.5	3902.7	2835.7	2691.5	2799.7	2876.6	2951.1	2984.7	3006.3	3025.6
30°	5979.0	5371.0	3542.2	2657.9	2657.9	2751.6	2850.1	2869.4	2915.0	2941.4	2975.1
32.5°	6036.7	5188.4	3172.2	2544.9	2624.2	2775.6	2782.8	2818.9	2821.3	2842.9	2806.9
35°	6188.1	5058.6	2828.5	2463.2	2638.7	2751.6	2787.6	2766.0	2648.3	2590.6	2602.6
37.5°	6298.6	4993.7	2581.0	2453.6	2641.1	2778.0	2797.3	2633.8	2511.3	2415.2	2439.2
40°	6596.6	4832.7	2393.5	2436.8	2662.7	2806.9	2754.0	2576.2	2355.1	2256.6	2239.7
42.5°	6824.9	4717.4	2275.8	2417.6	2679.5	2847.7	2732.4	2460.8	2234.9	2143.6	2167.6
45°	7089.3	4690.9	2213.3	2422.4	2708.3	2869.4	2705.9	2371.9	2131.6	2095.5	2088.3
47.5°	7183.0	4501.1	2146.0	2381.5	2701.1	2862.1	2617.0	2304.6	2093.1	2097.9	2117.2
50°	7026.8	4306.4	2095.5	2297.4	2653.1	2797.3	2477.6	2215.7	2071.5	2131.6	2165.2
52.5°	6827.3	4107.0	1992.2	2184.5	2554.5	2696.3	2412.8	2210.9	2049.9	2030.7	2037.9
55°	6887.4	3943.6	1848.0	2030.7	2395.9	2508.9	2340.7	2165.2	1997.0	1924.9	1949.0
56°	6692.8	3775.3	1754.3	1934.5	2287.8	2388.7	2304.6	2124.4	1953.8	1905.7	1905.7
57.5°	6142.4	3210.6	1631.7	1780.7	2059.5	2179.7	2234.9	2100.3	1905.7	1821.6	1824.0
60°	4529.9	2283.0	1463.5	1569.3	1706.2	1802.4	2059.5	2033.1	1785.5	1727.9	1706.2
62.5°	2792.5	1667.8	1343.4	1384.2	1453.9	1533.2	1797.6	1840.8	1658.2	1595.7	1581.3
65°	1564.4	1276.1	1252.0	1268.9	1302.5	1343.4	1492.4	1588.5	1463.5	1367.4	1362.6
67.5°	1143.9	1141.5	1160.7	1175.1	1189.6	1189.6	1225.6	1264.1	1247.2	1170.3	1163.1
70°	1016.5	1023.7	1038.2	1040.6	1045.4	1028.5	999.7	987.7	1006.9	958.9	949.2
72.5°	838.7	862.7	879.6	882.0	855.5	833.9	795.4	754.6	740.2	730.6	728.2
75°	644.0	660.9	668.1	665.7	656.1	624.8	579.2	538.3	511.9	483.0	497.5
77.5°	435.0	459.0	471.0	471.0	456.6	408.5	386.9	355.7	329.2	298.0	302.8
80°	305.2	322.0	341.2	338.8	314.8	290.8	259.5	230.7	209.1	185.0	182.6
82.5°	228.3	237.9	247.5	242.7	225.9	201.9	180.2	153.8	129.8	112.9	112.9
85°	81.7	88.9	108.1	112.9	122.6	122.6	103.3	86.5	69.7	57.7	57.7
87.5°	24.0	24.0	26.4	26.4	24.0	26.4	21.6	24.0	26.4	16.8	16.8
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)