

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: P531132

Luminaire Tested: **GALN-SA6B-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531132
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-SA6B-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 800mA 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: 21653 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

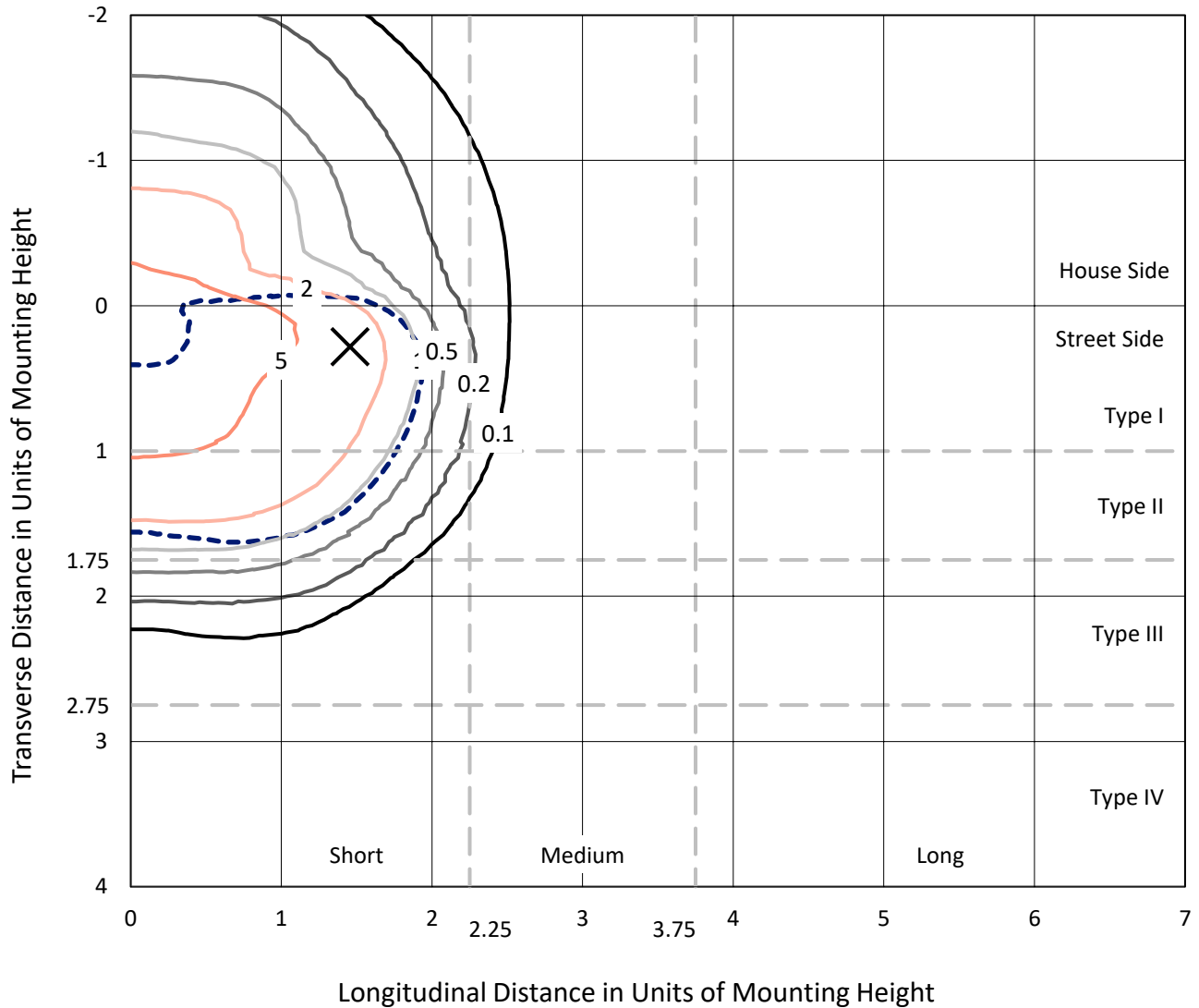
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531132
 CATALOG NUMBER: GALN-SA6B-827-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

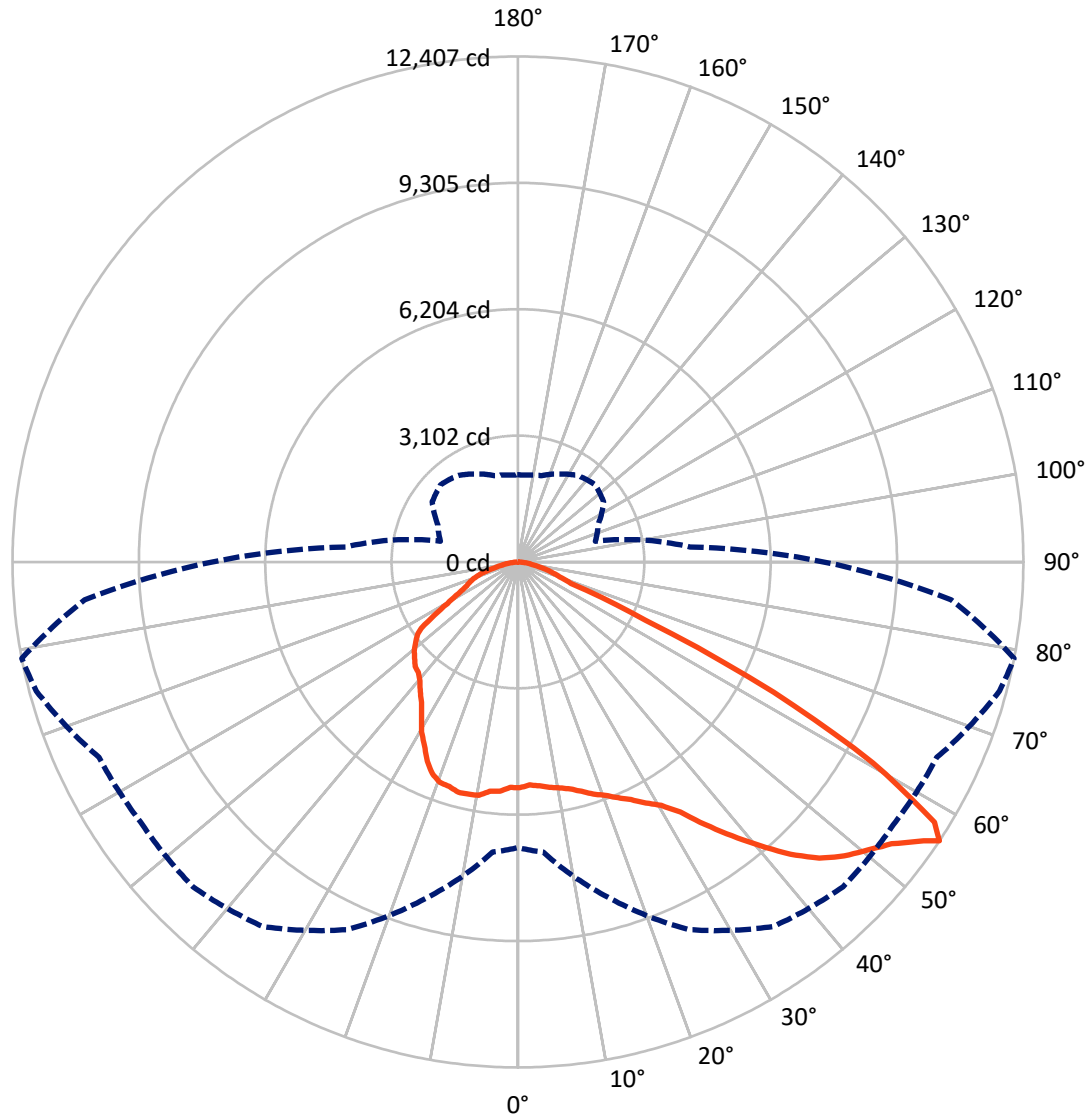
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - N/A

REPORT NUMBER: P531132
CATALOG NUMBER: GALN-SA6B-827-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531132
 CATALOG NUMBER: GALN-SA6B-827-U-T3R-GRSWH

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6394.6	0.0	6394.6
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	15258.4	0.0	15258.4
	% Fixture	70.5	0.0	70.5
Total	Lumens	21653.0	0.0	21653.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.7	2.3
10°-20°	1378.5	6.4
20°-30°	2358.3	10.9
30°-40°	3614.5	16.7
40°-50°	4884.9	22.6
50°-60°	5610.5	25.9
60°-70°	2557.4	11.8
70°-80°	630.5	2.9
80°-90°	114.6	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°	21653.0	100.0
0°-180°	21653.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531132

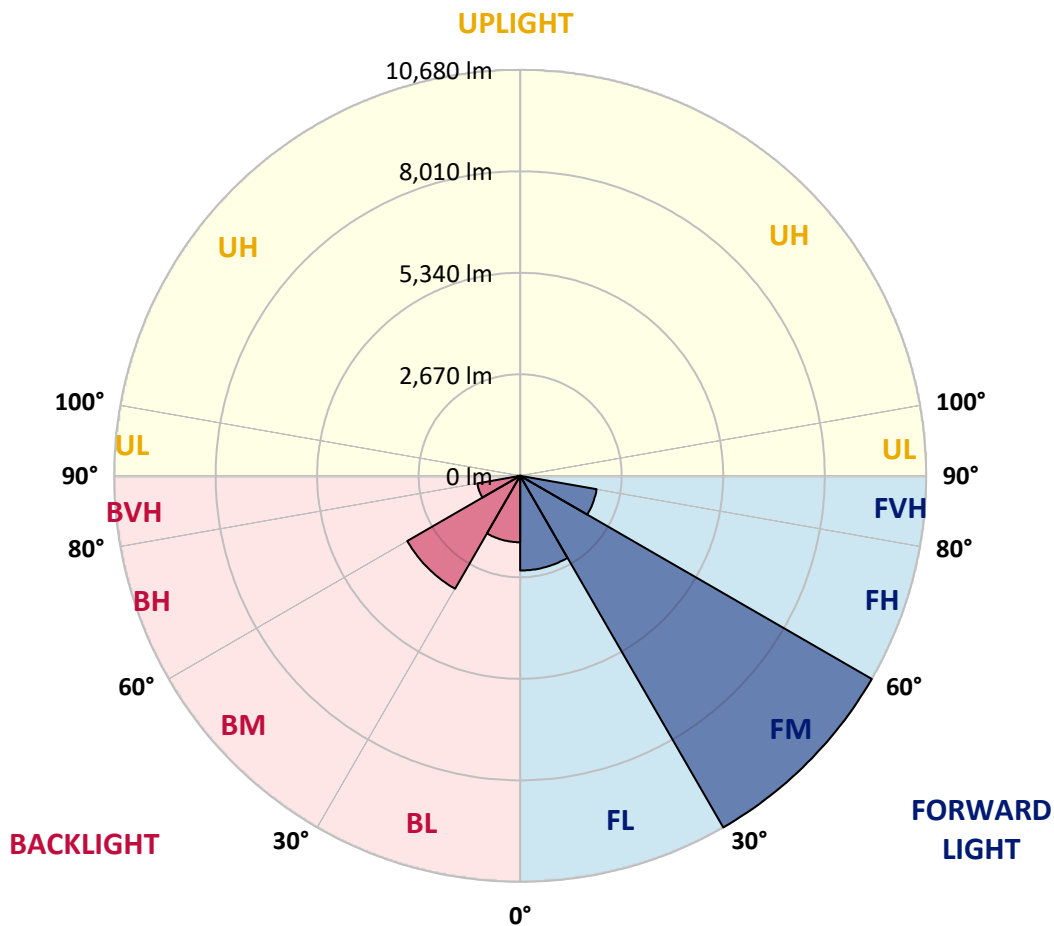
CATALOG NUMBER: GALN-SA6B-827-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.4	11.5			
FM (30°-60°)	10679.9	49.3			
FH (60°-80°)	2041.4	9.4			G2/5000
FVH (80°-90°)	45.8	0.2			G1/100
BL (0°-30°)	1749.2	8.1	B3/2500		
BM (30°-60°)	3430.0	15.8	B3/5000		
BH (60°-80°)	1146.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	68.8	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: P531132

CATALOG NUMBER: GALN-SA6B-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1
2.5°	5270.4	5256.9	5289.3	5313.6	5343.2	5381.0	5399.9	5410.7	5505.1	5480.8	5553.6
5°	5157.1	5122.1	5146.3	5165.2	5216.5	5262.3	5313.6	5394.5	5480.8	5518.6	5607.6
7.5°	5057.3	5038.5	5033.1	5046.5	5116.7	5176.0	5265.0	5383.7	5524.0	5586.0	5637.2
10°	4892.8	4865.8	4906.3	4995.3	5014.2	5138.3	5240.8	5410.7	5532.1	5639.9	5791.0
12.5°	4820.0	4793.0	4801.1	4852.3	4984.5	5103.2	5224.6	5416.1	5672.3	5715.5	5917.8
15°	4936.0	4909.0	4917.1	4903.6	5030.4	5092.4	5283.9	5524.0	5769.4	5842.2	6058.0
17.5°	5200.3	5203.0	5167.9	5138.3	5108.6	5240.8	5372.9	5588.7	5807.2	5990.6	6152.4
20°	5704.7	5615.7	5545.5	5378.3	5332.5	5389.1	5556.3	5764.0	5960.9	6112.0	6295.4
22.5°	6093.1	6101.2	6001.4	5726.3	5626.5	5650.7	5793.7	5963.6	6179.4	6287.3	6497.7
25°	6656.8	6600.2	6492.3	6273.8	6049.9	6068.8	6174.0	6327.7	6387.1	6462.6	6691.9
27.5°	7172.0	7188.2	6975.1	6770.1	6492.3	6438.3	6627.1	6654.1	6554.3	6697.3	6775.5
30°	7695.2	7681.8	7541.5	7301.4	7029.0	7039.8	7123.4	6991.3	6853.7	6931.9	6985.9
32.5°	8237.4	8083.6	8078.3	7862.5	7654.8	7555.0	7452.5	7517.2	7304.1	7320.3	7269.1
35°	8671.6	8693.2	8569.2	8415.4	8312.9	8137.6	7857.1	7973.1	7932.6	7913.7	7692.5
37.5°	8987.2	8903.6	8965.6	8914.4	8817.3	8598.8	8307.5	8418.1	8437.0	8528.7	8272.5
40°	9246.2	9211.1	9375.6	9402.6	9335.2	8863.2	8339.9	8669.0	8952.2	9151.8	8847.0
42.5°	9370.2	9445.8	9618.4	9826.1	9675.0	9170.6	8507.1	8860.5	9491.6	9807.2	9391.8
45°	9537.5	9440.4	9696.6	10076.9	10079.6	9429.6	8669.0	9119.4	9912.4	10370.9	9764.0
47.5°	9367.5	9416.1	9680.4	10163.2	10287.3	9702.0	9105.9	9486.2	10376.3	10783.6	10109.3
50°	8987.2	9084.3	9567.1	10068.8	10443.7	9990.6	9607.6	9882.7	10805.2	11115.4	10165.9
52.5°	8590.7	8644.7	9399.9	10141.6	10513.9	10362.8	10279.2	10430.3	11328.4	11490.3	10236.1
55°	7511.8	7768.1	8847.0	10109.3	10856.4	11034.4	10969.7	11190.9	11921.8	12083.7	10619.1
56°	7012.8	7147.7	8515.2	9958.2	10923.9	11279.9	11247.5	11347.3	12237.4	12407.3	10678.4
57.5°	6090.4	6101.2	7261.0	9289.3	10670.3	11352.7	11320.3	11398.6	12175.4	12059.4	10157.8
60°	3811.2	3978.4	4941.4	7145.0	9073.5	10532.7	10716.2	10087.7	10265.7	10020.3	7902.9
62.5°	1974.4	1950.1	2589.4	4178.0	6023.0	7541.5	7711.4	7681.8	7406.6	7047.9	5162.5
65°	984.5	989.9	1354.0	2068.8	3085.7	3948.8	4423.5	4474.7	3743.8	3444.4	2449.1
67.5°	714.8	741.7	973.7	1265.0	1453.8	1626.4	1993.3	1955.5	1480.8	1408.0	1305.5
70°	555.6	579.9	790.3	965.6	876.6	876.6	954.8	987.2	1054.6	1084.3	1119.4
72.5°	404.6	423.5	604.2	666.2	574.5	617.7	714.8	790.3	860.4	871.2	911.7
75°	277.8	294.0	396.5	366.8	345.2	426.2	523.3	593.4	644.6	671.6	695.9
77.5°	180.7	186.1	226.6	191.5	221.2	275.1	339.9	399.2	450.4	472.0	477.4
80°	80.9	89.0	97.1	121.4	153.7	196.9	242.8	291.3	323.7	331.8	347.9
82.5°	45.9	45.9	59.3	86.3	113.3	143.0	175.3	210.4	248.1	256.2	253.5
85°	24.3	24.3	35.1	51.2	70.1	83.6	80.9	83.6	89.0	102.5	99.8
87.5°	8.1	8.1	10.8	10.8	13.5	16.2	13.5	18.9	24.3	24.3	24.3
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: P531132

CATALOG NUMBER: GALN-SA6B-827-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1	5540.1
2.5°	5532.1	5556.3	5524.0	5594.1	5594.1	5580.6	5513.2	5534.8	5550.9	5550.9	5564.4
5°	5637.2	5629.2	5650.7	5567.1	5515.9	5497.0	5386.4	5332.5	5286.6	5283.9	5243.4
7.5°	5696.6	5675.0	5666.9	5604.9	5378.3	5240.8	5003.4	4865.8	4836.2	4731.0	4771.4
10°	5791.0	5831.4	5791.0	5453.8	5138.3	4822.7	4590.7	4377.6	4294.0	4226.6	4186.1
12.5°	5985.2	5966.3	5731.6	5275.8	4833.5	4458.5	4113.3	3889.4	3805.8	3746.5	3741.1
15°	6149.7	6055.3	5696.6	4995.3	4358.8	3959.6	3676.3	3517.2	3479.4	3484.8	3509.1
17.5°	6206.4	6141.6	5513.2	4704.0	4005.4	3536.1	3403.9	3379.7	3414.7	3455.2	3466.0
20°	6295.4	6192.9	5437.6	4307.5	3568.5	3271.8	3263.7	3350.0	3414.7	3474.1	3482.1
22.5°	6481.5	6222.5	5192.2	3932.6	3269.1	3193.5	3271.8	3344.6	3444.4	3492.9	3449.8
25°	6535.4	6157.8	4847.0	3482.1	3080.3	3145.0	3228.6	3328.4	3398.5	3425.5	3444.4
27.5°	6581.3	6058.0	4380.3	3182.8	3020.9	3142.3	3228.6	3312.2	3350.0	3374.3	3395.8
30°	6710.8	6028.3	3975.7	2983.2	2983.2	3088.3	3198.9	3220.5	3271.8	3301.4	3339.2
32.5°	6775.5	5823.4	3560.4	2856.4	2945.4	3115.3	3123.4	3163.9	3166.6	3190.8	3150.4
35°	6945.4	5677.7	3174.7	2764.7	2961.6	3088.3	3128.8	3104.5	2972.4	2907.6	2921.1
37.5°	7069.5	5604.9	2896.8	2753.9	2964.3	3118.0	3139.6	2956.2	2818.6	2710.7	2737.7
40°	7403.9	5424.2	2686.5	2735.0	2988.5	3150.4	3091.0	2891.4	2643.3	2532.7	2513.8
42.5°	7660.2	5294.7	2554.3	2713.4	3007.4	3196.2	3066.8	2762.0	2508.4	2405.9	2432.9
45°	7956.9	5265.0	2484.2	2718.8	3039.8	3220.5	3037.1	2662.2	2392.5	2352.0	2343.9
47.5°	8062.1	5051.9	2408.6	2673.0	3031.7	3212.4	2937.3	2586.7	2349.3	2354.7	2376.3
50°	7886.8	4833.5	2352.0	2578.6	2977.8	3139.6	2780.9	2486.9	2325.0	2392.5	2430.2
52.5°	7662.9	4609.6	2236.0	2451.8	2867.2	3026.3	2708.0	2481.5	2300.8	2279.2	2287.3
55°	7730.3	4426.2	2074.2	2279.2	2689.2	2815.9	2627.1	2430.2	2241.4	2160.5	2187.5
56°	7511.8	4237.4	1969.0	2171.3	2567.8	2681.1	2586.7	2384.4	2192.9	2138.9	2138.9
57.5°	6894.2	3603.5	1831.4	1998.7	2311.5	2446.4	2508.4	2357.4	2138.9	2044.5	2047.2
60°	5084.3	2562.4	1642.6	1761.3	1915.0	2022.9	2311.5	2281.9	2004.1	1939.3	1915.0
62.5°	3134.2	1871.9	1507.8	1553.6	1631.8	1720.8	2017.5	2066.1	1861.1	1791.0	1774.8
65°	1755.9	1432.2	1405.3	1424.1	1461.9	1507.8	1675.0	1782.9	1642.6	1534.7	1529.3
67.5°	1283.9	1281.2	1302.8	1319.0	1335.1	1335.1	1375.6	1418.8	1399.9	1313.6	1305.5
70°	1140.9	1149.0	1165.2	1167.9	1173.3	1154.4	1122.1	1108.6	1130.1	1076.2	1065.4
72.5°	941.3	968.3	987.2	989.9	960.2	935.9	892.8	846.9	830.8	820.0	817.3
75°	722.9	741.7	749.8	747.1	736.3	701.3	650.0	604.2	574.5	542.1	558.3
77.5°	488.2	515.2	528.7	528.7	512.5	458.5	434.3	399.2	369.5	334.5	339.9
80°	342.6	361.4	383.0	380.3	353.3	326.4	291.3	258.9	234.7	207.7	205.0
82.5°	256.2	267.0	277.8	272.4	253.5	226.6	202.3	172.6	145.7	126.8	126.8
85°	91.7	99.8	121.4	126.8	137.6	137.6	116.0	97.1	78.2	64.7	64.7
87.5°	27.0	27.0	29.7	29.7	27.0	29.7	24.3	27.0	29.7	18.9	18.9
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)