

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: P533947

Luminaire Tested: **GALN-SA9B-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533947
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30579 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 364
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



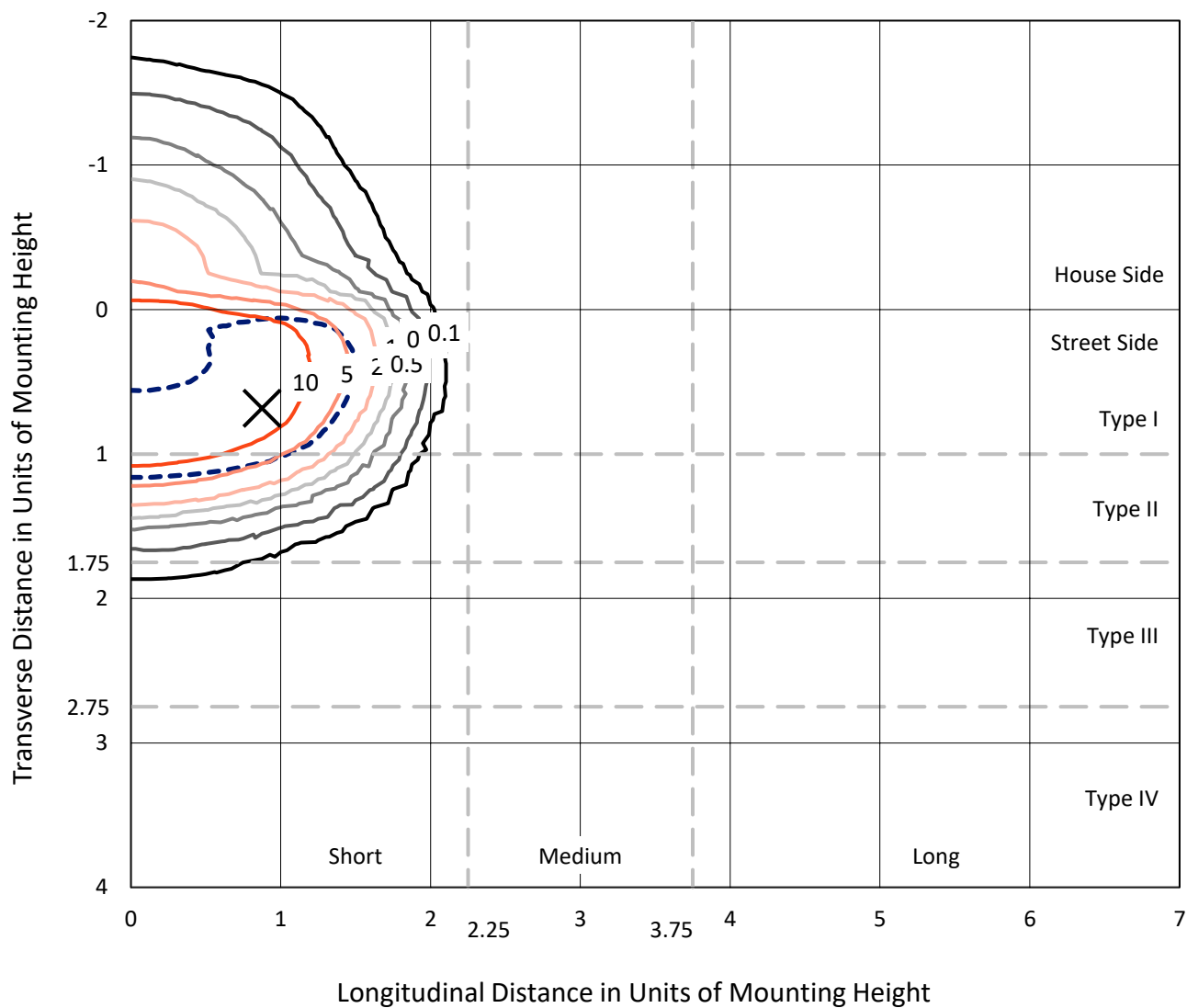
REPORT NUMBER: P533947

CATALOG NUMBER: GALN-SA9B-830-U-AFL-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

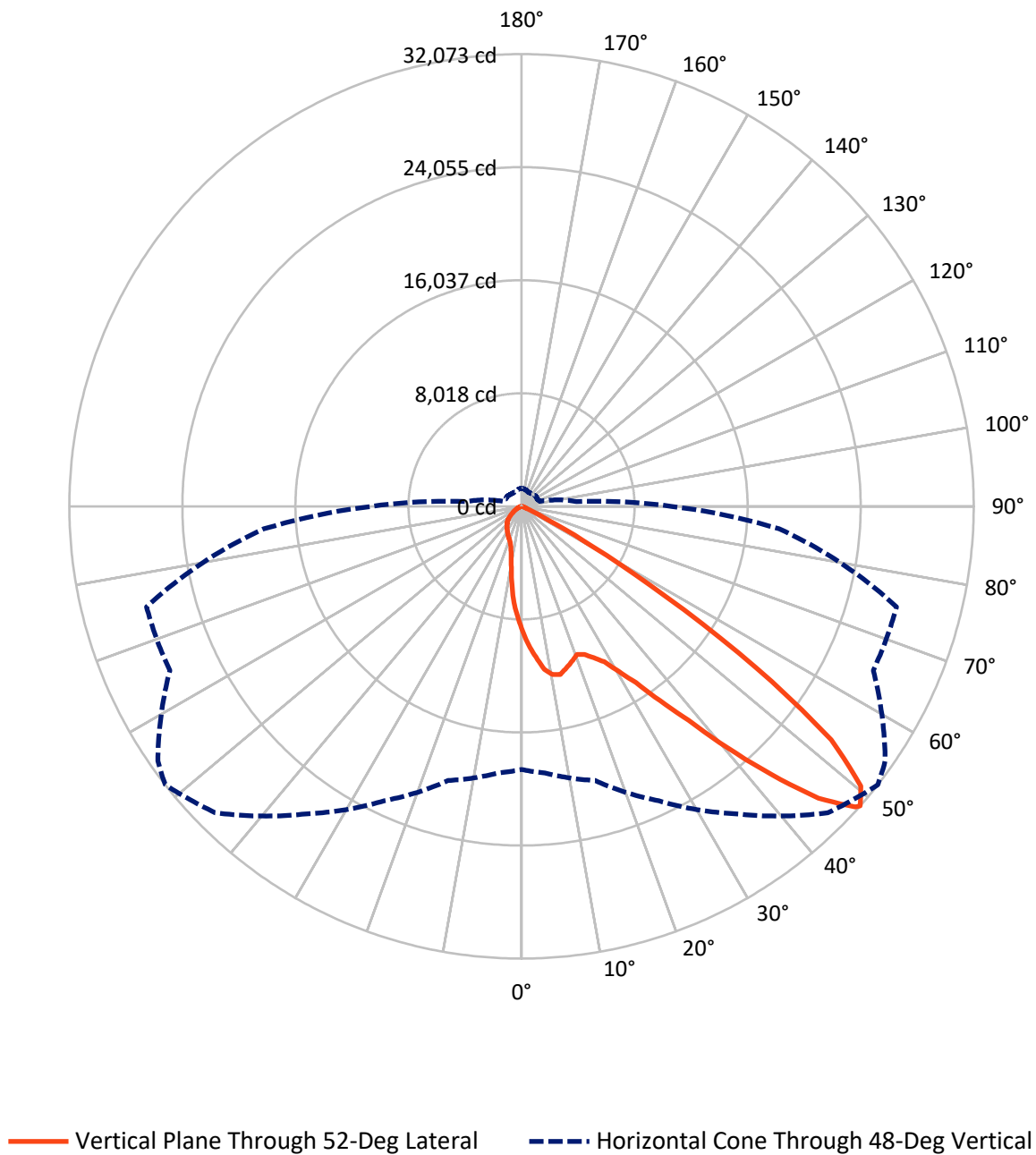


Based on 25 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Short - N/A

REPORT NUMBER: P533947

CATALOG NUMBER: GALN-SA9B-830-U-AFL-GRSBK

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3723.2	0.0	3723.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	26855.8	0.0	26855.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	30579.0	0.0	30579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.3	2.6
10°-20°	2112.3	6.9
20°-30°	3606.5	11.8
30°-40°	6641.4	21.7
40°-50°	10314.1	33.7
50°-60°	6207.4	20.3
60°-70°	717.9	2.3
70°-80°	139.0	0.5
80°-90°	32.1	0.1
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°	30579.0	100.0
0°-180°	30579.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533947

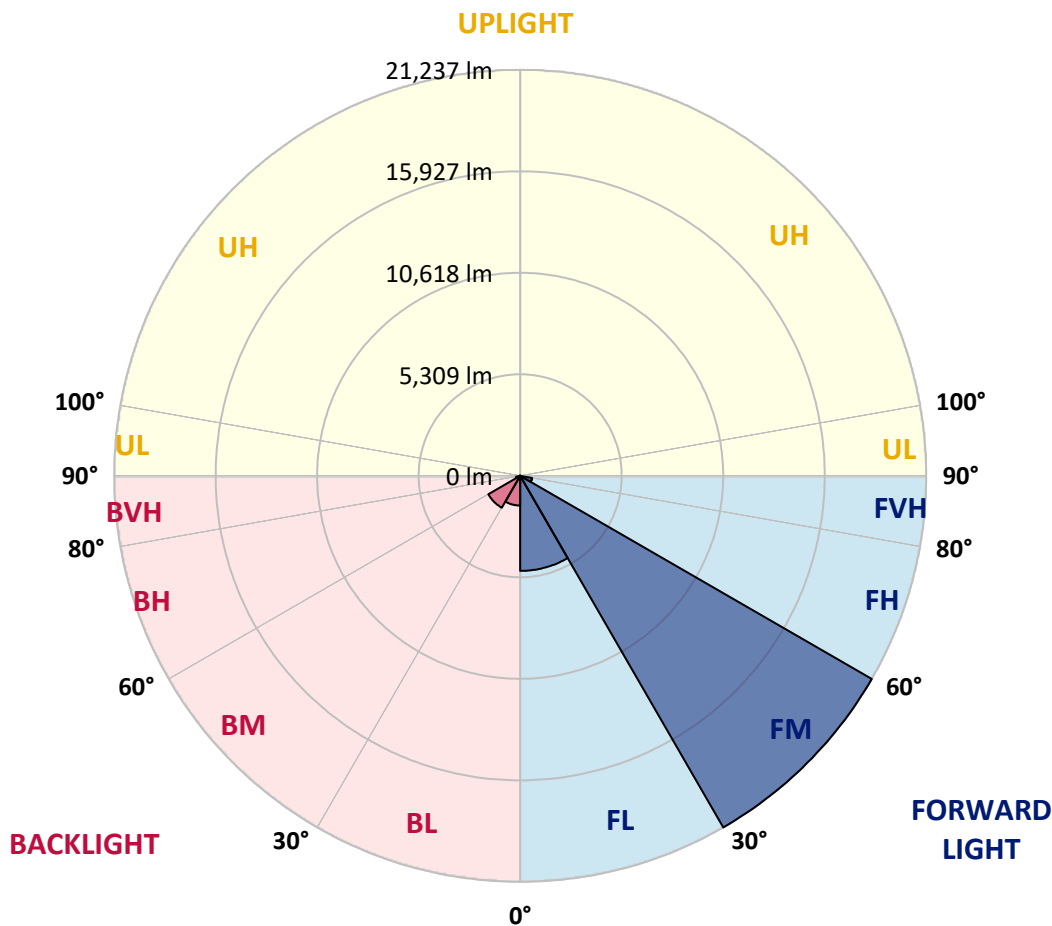
CATALOG NUMBER: GALN-SA9B-830-U-AFL-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4971.8	16.3			
FM	(30°-60°)	21236.5	69.4			
FH	(60°-80°)	632.2	2.1			G0/660
FVH	(80°-90°)	15.3	0.1			G1/100
BL	(0°-30°)	1555.3	5.1	B3/2500		
BM	(30°-60°)	1926.4	6.3	B2/2500		
BH	(60°-80°)	224.7	0.7	B1/500		G1/500
BVH	(80°-90°)	16.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



REPORT NUMBER: P533947

CATALOG NUMBER: GALN-SA9B-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7
2.5°	10702.9	10457.8	10480.1	10319.6	10226.0	10074.4	9869.4	9829.2	9606.3	9303.2	8995.6
5°	11665.8	11607.9	11683.6	11451.8	11460.8	11211.1	10729.7	10738.6	10226.0	9731.2	9254.2
7.5°	11728.2	11594.5	11670.3	11875.3	11995.7	11951.1	11679.2	11442.9	10957.0	10230.4	9535.0
10°	10502.3	10756.4	10836.7	11175.5	11656.9	12165.1	12133.9	12147.2	11741.6	10792.1	9775.7
12.5°	9766.8	9597.4	9869.4	10074.4	10801.0	11786.2	12236.4	12334.5	12365.7	11335.9	10016.5
15°	9432.5	9432.5	9477.1	9535.0	10061.0	10970.4	11888.7	12174.0	12847.1	12049.2	10395.4
17.5°	9642.0	9633.1	9695.5	9575.1	9771.3	10471.1	11567.7	11893.1	13386.5	12749.0	10694.0
20°	10279.5	10310.7	10270.5	9922.8	9936.2	10462.2	11211.1	11723.8	13752.0	13355.3	11090.8
22.5°	11166.5	11184.4	10957.0	10578.1	10466.7	10725.2	11416.2	11808.5	14046.2	14081.9	11211.1
25°	12191.8	12120.5	12075.9	11541.0	11202.2	11425.1	11879.8	12107.1	14229.0	14706.0	11554.4
27.5°	13613.8	13471.2	13199.3	12722.3	12472.6	12156.2	12481.6	12856.0	14750.5	15579.7	11928.8
30°	15713.4	15588.6	15058.1	14443.0	13787.7	13475.6	13578.2	13783.2	15691.1	16591.6	12423.6
32.5°	18873.9	18610.9	17844.2	16671.8	15780.3	14919.9	14893.2	15111.6	16533.6	17991.3	13012.0
35°	22355.4	22275.1	21147.3	19939.3	18214.2	16885.8	16908.1	17024.0	18147.3	19827.9	13783.2
37.5°	24668.9	25110.2	24392.5	23095.4	21646.6	19747.6	19266.2	19306.3	20362.8	22003.2	15174.0
40°	26456.5	26082.0	26166.7	25863.6	24874.0	23581.2	22515.9	22306.3	22926.0	24410.4	16555.9
42.5°	25676.4	25694.2	26215.7	26933.4	27178.6	27085.0	25997.3	25600.6	25119.1	26380.7	17870.9
45°	23474.3	23933.4	24611.0	26510.0	28177.1	29741.8	29527.8	28868.1	26634.8	27940.9	18628.7
47.5°	19961.6	19943.8	21053.7	23523.3	27227.6	30891.9	31863.7	31400.1	27709.1	27767.0	18472.7
48°	18664.4	18985.4	20131.0	23037.4	26625.9	30722.5	32073.2	31489.2	27526.3	27535.2	18339.0
50°	13796.6	13738.6	15165.1	18731.3	23781.8	28868.1	31190.5	31645.2	27521.9	26362.8	17402.9
52.5°	7288.3	7538.0	8576.6	11777.2	16814.5	23625.8	27512.9	28221.7	26550.1	24446.0	16056.6
55°	3098.1	2799.4	3597.4	5318.0	9459.2	15784.7	20184.5	21762.5	22449.0	21633.2	14046.2
57.5°	1105.5	1208.0	1390.8	2001.5	3976.3	8639.0	12035.8	13261.7	15552.9	15873.9	9570.7
60°	708.8	722.1	780.1	918.3	1493.3	3329.9	5710.3	6686.6	7725.2	7974.8	4466.6
62.5°	548.3	552.8	579.5	601.8	708.8	1292.7	2144.2	2540.9	2639.0	2269.0	1172.4
65°	459.1	463.6	472.5	472.5	503.7	606.2	748.9	824.7	802.4	793.5	664.2
67.5°	352.2	361.1	378.9	378.9	396.7	370.0	414.6	441.3	499.3	606.2	566.1
70°	276.4	280.8	294.2	303.1	303.1	267.5	298.7	325.4	365.5	450.2	445.8
72.5°	214.0	222.9	231.8	231.8	218.4	182.8	214.0	236.3	263.0	312.0	303.1
75°	164.9	164.9	169.4	138.2	107.0	93.6	129.3	156.0	196.1	205.1	169.4
77.5°	44.6	49.0	44.6	40.1	44.6	66.9	84.7	98.1	124.8	124.8	111.4
80°	0.0	4.5	13.4	26.7	44.6	62.4	75.8	84.7	98.1	107.0	102.5
82.5°	0.0	4.5	13.4	26.7	40.1	49.0	66.9	71.3	80.2	93.6	93.6
85°	0.0	4.5	8.9	17.8	26.7	31.2	31.2	26.7	26.7	22.3	17.8
87.5°	0.0	0.0	4.5	8.9	8.9	13.4	13.4	13.4	13.4	13.4	13.4
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: P533947

CATALOG NUMBER: GALN-SA9B-830-U-AFL-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7	8830.7
2.5°	8875.3	8737.1	8527.6	8197.7	7881.2	7676.2	7480.0	7261.6	7141.2	7132.3	7065.5
5°	8982.3	8670.2	8171.0	7604.8	6998.6	6477.0	5951.0	5607.8	5300.2	5130.8	5099.6
7.5°	9040.2	8634.6	7827.7	6878.2	5844.0	4992.6	4404.2	3971.8	3802.4	3677.6	3673.1
10°	9160.6	8572.2	7315.1	5915.4	4636.0	3775.7	3370.0	3173.9	3080.3	3044.6	2991.1
12.5°	9249.7	8456.3	6789.1	4925.8	3664.2	3129.3	2951.0	2906.4	2910.9	2928.7	2906.4
15°	9374.5	8353.7	6080.3	4043.1	3075.8	2817.3	2817.3	2826.2	2888.6	2897.5	2893.0
17.5°	9365.6	8153.1	5349.2	3329.9	2719.2	2683.5	2696.9	2781.6	2821.7	2835.1	2803.9
20°	9472.6	7965.9	4595.9	2844.0	2518.6	2572.1	2661.2	2683.5	2732.6	2741.5	2705.8
22.5°	9441.4	7497.9	3896.0	2460.7	2367.0	2469.6	2558.7	2585.5	2572.1	2545.3	2540.9
25°	9383.5	7096.7	3254.1	2206.6	2255.6	2367.0	2451.7	2402.7	2376.0	2380.4	2384.9
27.5°	9280.9	6588.5	2723.7	2028.3	2104.0	2269.0	2264.5	2246.7	2273.4	2251.1	2273.4
30°	9263.1	6080.3	2286.8	1867.8	1992.6	2113.0	2121.9	2153.1	2184.3	2144.2	2184.3
32.5°	9289.9	5523.1	1974.8	1769.7	1925.7	1930.2	2028.3	2059.5	2037.2	1948.0	1956.9
35°	9494.9	5095.2	1747.4	1716.2	1818.7	1823.2	1916.8	1876.7	1778.6	1725.1	1756.3
37.5°	9927.3	4738.5	1640.4	1667.2	1676.1	1734.0	1738.5	1658.3	1667.2	1662.7	1680.6
40°	10480.1	4466.6	1564.7	1622.6	1613.7	1653.8	1493.3	1537.9	1578.0	1591.4	1600.3
42.5°	10859.0	4270.5	1515.6	1551.3	1533.4	1462.1	1373.0	1417.5	1448.8	1497.8	1506.7
45°	11028.4	4114.5	1457.7	1426.5	1426.5	1297.2	1261.5	1270.4	1341.8	1395.3	1386.3
47.5°	10752.0	3962.9	1355.1	1261.5	1292.7	1185.7	1145.6	1145.6	1221.4	1288.3	1274.9
48°	10645.0	3900.5	1359.6	1225.9	1248.2	1167.9	1127.8	1118.9	1203.6	1266.0	1266.0
50°	10114.5	3668.7	1243.7	1127.8	1083.2	1074.3	1047.6	1056.5	1110.0	1167.9	1167.9
52.5°	9080.3	3169.4	1052.0	967.3	887.1	940.6	953.9	936.1	962.9	1016.4	1011.9
55°	7578.1	2433.9	842.5	802.4	740.0	797.9	824.7	802.4	775.6	815.8	815.8
57.5°	4854.4	1310.6	673.1	682.0	619.6	677.6	699.9	646.4	597.3	628.5	624.1
60°	2188.7	784.6	552.8	539.4	499.3	566.1	601.8	539.4	472.5	494.8	517.1
62.5°	820.2	557.2	419.0	410.1	401.2	463.6	481.4	432.4	365.5	378.9	383.4
65°	601.8	490.3	334.3	303.1	321.0	365.5	356.6	307.6	263.0	263.0	271.9
67.5°	512.6	427.9	271.9	236.3	236.3	240.7	222.9	196.1	182.8	191.7	200.6
70°	401.2	338.8	214.0	182.8	164.9	147.1	129.3	124.8	111.4	124.8	120.4
72.5°	258.5	227.3	164.9	138.2	124.8	102.5	84.7	80.2	66.9	62.4	62.4
75°	138.2	138.2	129.3	111.4	98.1	80.2	66.9	53.5	35.7	26.7	26.7
77.5°	98.1	107.0	115.9	107.0	89.2	66.9	53.5	35.7	17.8	8.9	8.9
80°	93.6	107.0	115.9	102.5	89.2	66.9	49.0	26.7	13.4	4.5	4.5
82.5°	84.7	98.1	107.0	93.6	80.2	58.0	44.6	26.7	13.4	4.5	4.5
85°	17.8	22.3	26.7	26.7	31.2	40.1	31.2	22.3	8.9	4.5	4.5
87.5°	13.4	13.4	13.4	13.4	13.4	13.4	8.9	8.9	4.5	4.5	4.5
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)