

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: P531622

Luminaire Tested: **GALN-SA6D-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32033 lumens
Efficiency: N/A
Efficacy: 87.0 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): 368
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

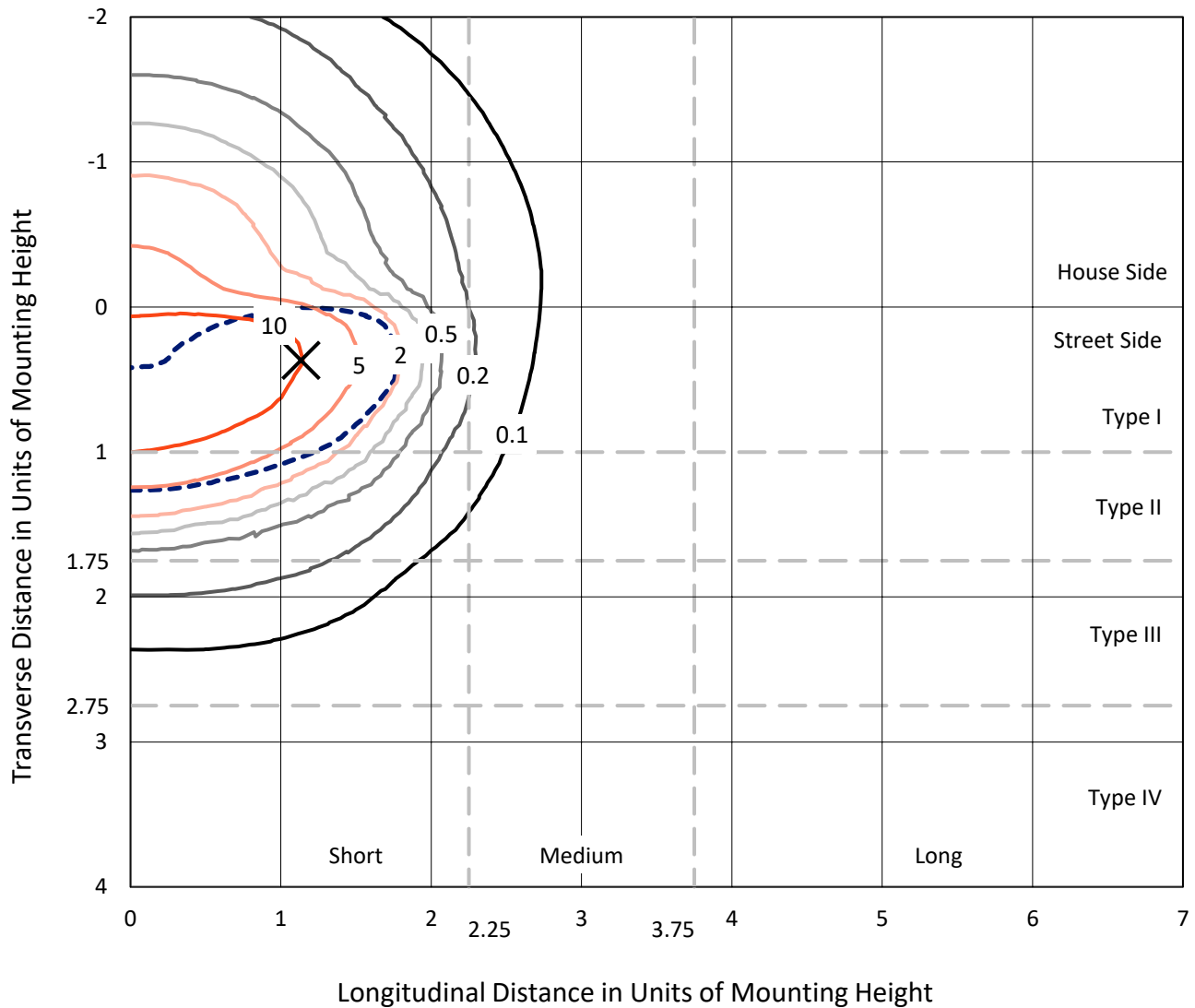


REPORT NUMBER: P531622

CATALOG NUMBER: GALN-SA6D-830-U-T2R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

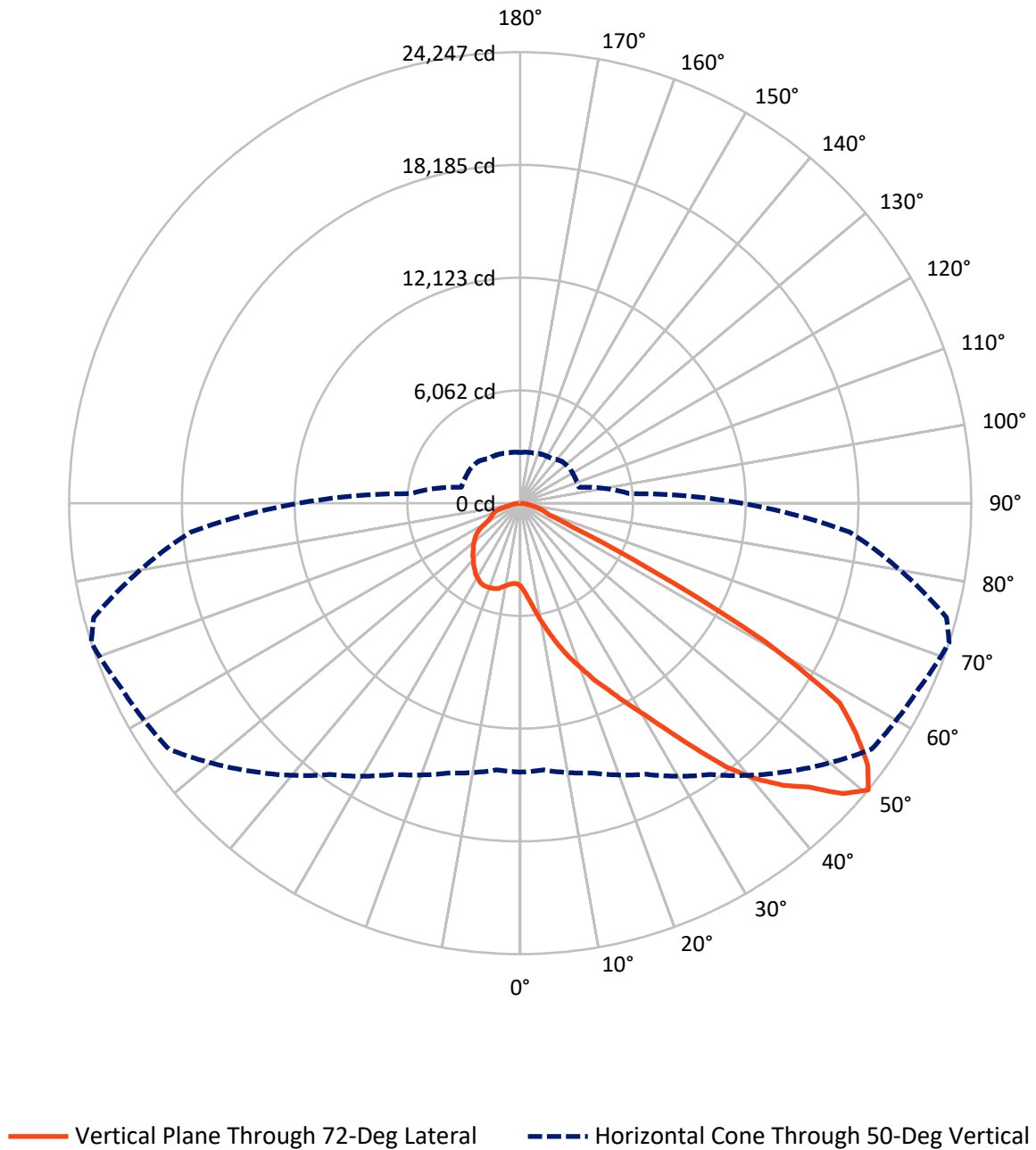


Based on 25 foot mounting height. Maximum calculated value = 15.9 fc
 Type II - Short - N/A

REPORT NUMBER: P531622

CATALOG NUMBER: GALN-SA6D-830-U-T2R-GRSWH

Luminous Intensity Polar Plot



REPORT NUMBER: P531622

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7339.0	0.0	7339.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	24694.0	0.0	24694.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	32033.0	0.0	32033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.5	1.6
10°-20°	1960.8	6.1
20°-30°	3801.9	11.9
30°-40°	6298.5	19.7
40°-50°	8813.0	27.5
50°-60°	7434.9	23.2
60°-70°	2266.1	7.1
70°-80°	795.0	2.5
80°-90°	138.2	0.4
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°	32033.0	100.0
0°-180°	32033.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531622

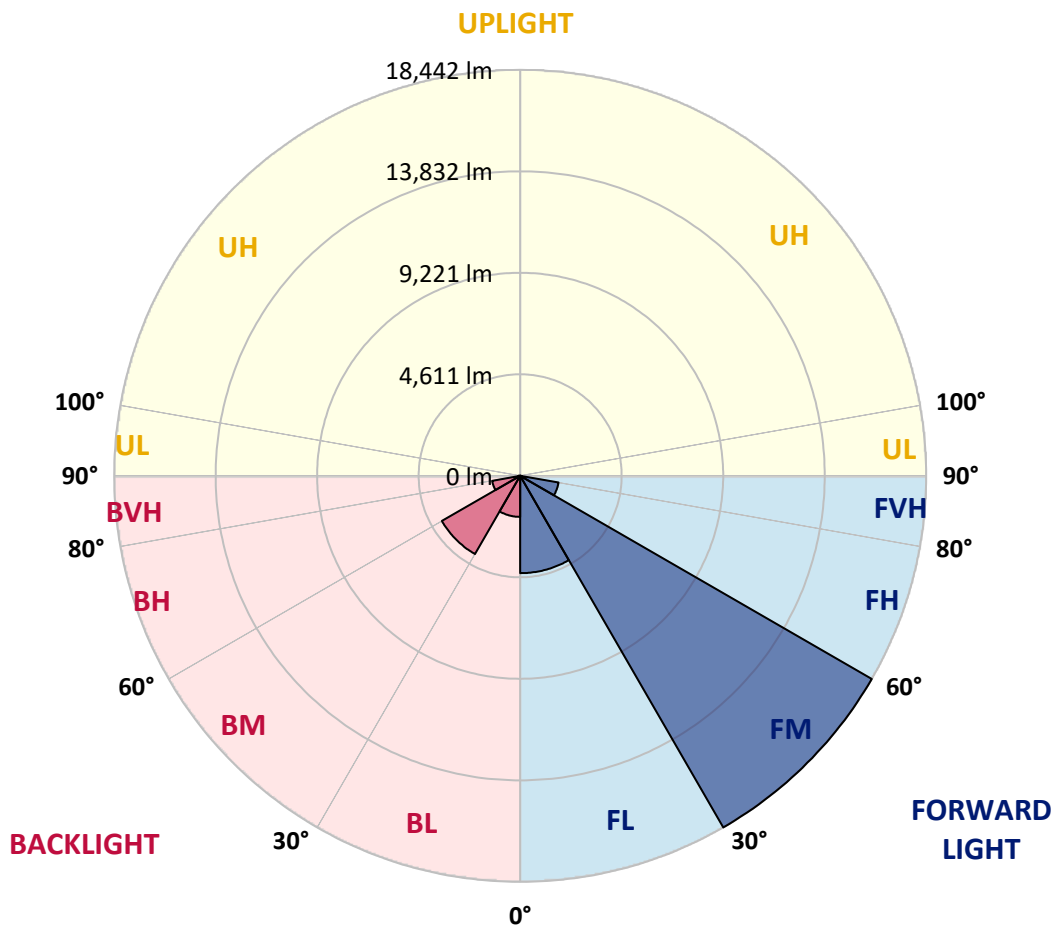
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4421.7	13.8			
FM	(30°-60°)	18442.3	57.6			
FH	(60°-80°)	1768.2	5.5			G1/1800
FVH	(80°-90°)	61.9	0.2			G1/100
BL	(0°-30°)	1865.6	5.8	B3/2500		
BM	(30°-60°)	4104.1	12.8	B3/5000		
BH	(60°-80°)	1293.0	4.0	B3/2500		G3/2500
BVH	(80°-90°)	76.3	0.2			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: P531622

CATALOG NUMBER: GALN-SA6D-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	5735.6	5699.9	5592.9	5557.2	5430.4	5200.5	5121.2	4887.4	4788.3	4697.1	4590.1
5°	7253.7	7087.3	7075.4	6873.2	6579.9	6409.5	5902.1	5561.2	5248.1	5089.5	4796.2
7.5°	8220.9	8224.9	8224.9	8058.4	7824.5	7392.5	6936.6	6322.2	5850.6	5616.7	5117.3
10°	9140.5	9061.2	9017.6	9001.8	8843.2	8423.1	7935.5	7174.5	6528.4	6254.9	5359.0
12.5°	9790.6	9723.2	9822.3	9770.7	9655.8	9382.3	8922.5	8054.4	7245.8	6877.2	5747.5
15°	10099.7	10147.3	10226.6	10369.3	10317.8	10214.7	9707.3	8958.2	8018.8	7602.6	6092.3
17.5°	10575.4	10444.6	10539.7	10718.1	10860.8	10813.2	10523.9	9612.2	8783.8	8272.4	6556.1
20°	10908.4	10833.0	10880.6	11086.7	11193.8	11463.3	11312.7	10468.4	9517.1	8978.0	7103.1
22.5°	11859.7	11748.7	11594.1	11625.8	11665.4	11855.7	11891.4	11407.8	10369.3	9798.5	7622.4
25°	13033.0	12929.9	12747.6	12561.3	12446.3	12410.6	12533.5	12145.1	11185.8	10595.2	8181.3
27.5°	14325.1	14150.7	14035.8	13651.3	13342.1	13294.6	13235.1	13025.0	12153.0	11514.8	8811.5
30°	15581.7	15442.9	15288.3	14674.0	14352.9	14301.4	14008.0	14067.5	13203.4	12493.9	9525.0
32.5°	16533.0	16544.9	16192.1	15728.3	15427.1	15153.6	15046.6	15217.0	14551.1	13980.3	10321.7
35°	17302.0	17337.6	17000.7	16580.5	16255.5	16445.8	16398.2	16477.5	16160.4	15462.8	11249.2
37.5°	18051.1	17872.7	17512.0	17309.9	17139.4	17452.6	17856.9	17924.3	17983.7	17163.2	12327.4
40°	18174.0	18189.8	17979.8	18122.5	17908.4	18380.1	19319.5	19232.3	19474.1	18756.7	13496.7
42.5°	17999.6	18035.3	18118.5	18320.6	18835.9	19402.8	20798.0	20441.3	20734.6	20096.4	14634.3
45°	17714.2	17567.5	17670.6	18439.6	19331.4	20591.9	22149.7	21872.2	21777.1	21242.0	15989.9
47.5°	16350.6	16501.3	16822.3	17769.7	19109.4	20798.0	23108.9	23045.5	23330.9	22954.3	17222.7
50°	14459.9	14400.5	15018.8	16085.1	17813.3	20393.7	23057.4	23632.1	24246.5	23723.3	17773.6
52.5°	10829.1	11146.2	11677.3	13001.2	15466.7	18189.8	21931.7	22890.9	23390.3	23279.4	17329.7
55°	6845.5	6940.6	7261.7	8835.3	11055.0	14598.6	18800.3	21024.0	21915.8	22332.0	16921.4
57.5°	3325.6	3147.3	3539.7	4804.1	6385.7	9818.3	14499.6	18312.7	20251.0	21004.1	16033.5
60°	1736.1	1803.5	1958.1	2410.0	3301.8	5097.4	9037.4	12204.5	15165.5	16322.9	12153.0
62.5°	1438.9	1462.6	1565.7	1791.6	2195.9	2933.2	4613.9	5949.7	7733.4	8775.8	6912.9
65°	1220.8	1232.7	1343.7	1494.3	1752.0	2065.1	2374.3	2485.3	3008.5	3087.8	2457.6
67.5°	1018.7	1030.6	1149.5	1292.2	1458.7	1541.9	1621.2	1613.3	1672.7	1648.9	1645.0
70°	784.8	796.7	919.6	1070.2	1153.5	1105.9	1351.7	1407.1	1430.9	1450.7	1482.5
72.5°	566.8	590.6	685.7	792.8	749.2	860.1	1113.8	1197.1	1228.8	1240.7	1280.3
75°	412.2	420.2	443.9	412.2	475.7	598.5	784.8	887.9	927.5	939.4	998.9
77.5°	182.3	186.3	190.3	237.8	305.2	372.6	467.7	551.0	606.5	622.3	638.2
80°	95.1	99.1	122.9	162.5	218.0	273.5	340.9	388.5	424.1	428.1	443.9
82.5°	59.5	63.4	87.2	114.9	154.6	202.2	249.7	289.4	317.1	321.1	325.0
85°	27.7	35.7	51.5	71.3	103.1	130.8	134.8	114.9	122.9	126.8	118.9
87.5°	7.9	11.9	15.9	11.9	15.9	15.9	19.8	23.8	23.8	23.8	27.7
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: P531622

CATALOG NUMBER: GALN-SA6D-830-U-T2R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3	4459.3
2.5°	4530.6	4494.9	4356.2	4304.7	4169.9	4193.7	4122.3	4118.4	4102.5	4098.6	4094.6
5°	4641.6	4530.6	4364.1	4237.3	4162.0	4154.1	4102.5	4102.5	4118.4	4130.3	4102.5
7.5°	4823.9	4697.1	4415.7	4296.8	4229.4	4217.5	4181.8	4154.1	4189.7	4177.8	4146.1
10°	5034.0	4812.0	4514.8	4411.7	4300.7	4273.0	4273.0	4284.9	4225.4	4245.2	4213.5
12.5°	5267.9	4970.6	4641.6	4522.7	4391.9	4376.0	4368.1	4280.9	4312.6	4296.8	4217.5
15°	5565.2	5152.9	4804.1	4602.0	4491.0	4419.6	4316.6	4300.7	4280.9	4241.3	4205.6
17.5°	5886.2	5351.1	4879.4	4625.7	4459.3	4407.7	4328.5	4245.2	4185.8	4193.7	4165.9
20°	6159.7	5533.5	4907.2	4649.5	4435.5	4336.4	4213.5	4162.0	4098.6	4094.6	4090.6
22.5°	6484.8	5779.2	4946.8	4586.1	4364.1	4261.1	4177.8	4086.7	4043.1	3987.6	4015.3
25°	6873.2	5874.3	4954.7	4550.4	4312.6	4130.3	4086.7	3987.6	3971.7	3892.4	3908.3
27.5°	7154.6	5925.9	4891.3	4439.4	4193.7	4055.0	3975.7	3904.3	3876.6	3817.1	3801.3
30°	7531.2	6005.1	4756.6	4300.7	4074.8	3920.2	3872.6	3856.8	3777.5	3714.1	3706.1
32.5°	7959.3	6056.7	4669.3	4158.0	3951.9	3833.0	3856.8	3781.5	3682.4	3626.9	3611.0
35°	8300.2	6076.5	4451.3	3995.5	3868.7	3793.3	3765.6	3749.7	3607.1	3555.5	3515.9
37.5°	8819.4	6032.9	4269.0	3880.6	3777.5	3749.7	3726.0	3618.9	3456.4	3381.1	3325.6
40°	9425.9	6021.0	4035.1	3718.0	3690.3	3722.0	3650.7	3484.2	3258.2	3175.0	3135.4
42.5°	10008.6	6104.2	3888.5	3630.8	3595.2	3607.1	3508.0	3258.2	3147.3	3099.7	3036.3
45°	10983.7	6278.6	3646.7	3496.1	3480.2	3472.3	3353.4	3091.8	3028.3	2968.9	2957.0
47.5°	11863.6	6163.7	3492.1	3357.3	3373.2	3329.6	3075.9	2992.7	2921.3	2861.9	2842.0
50°	11915.2	5890.2	3274.1	3250.3	3254.3	3179.0	2937.2	2881.7	2790.5	2750.9	2723.1
52.5°	11645.6	5442.3	3071.9	3079.9	3091.8	2968.9	2766.7	2727.1	2651.8	2596.3	2580.4
55°	10888.5	4744.7	2873.7	2905.5	2937.2	2703.3	2639.9	2540.8	2481.3	2402.1	2406.0
57.5°	9592.4	3821.1	2596.3	2647.8	2715.2	2457.6	2410.0	2287.1	2199.9	2136.5	2128.6
60°	6429.3	2719.2	2180.1	2199.9	2350.5	2247.5	2243.5	2120.6	2001.7	1946.2	1914.5
62.5°	3793.3	2077.0	1882.8	1863.0	1859.0	1918.5	2017.6	1974.0	1819.4	1712.4	1744.1
65°	1985.9	1795.6	1752.0	1684.6	1645.0	1629.1	1704.4	1724.2	1621.2	1506.2	1498.3
67.5°	1668.8	1668.8	1633.1	1609.3	1553.8	1486.4	1438.9	1375.4	1359.6	1327.9	1288.2
70°	1518.1	1557.8	1545.9	1490.4	1442.8	1367.5	1244.6	1141.6	1042.5	1006.8	1030.6
72.5°	1323.9	1363.5	1363.5	1335.8	1272.4	1157.4	1038.5	919.6	836.4	772.9	765.0
75°	1018.7	1038.5	1086.1	1054.4	971.1	899.8	776.9	654.0	574.7	515.3	503.4
77.5°	650.1	681.8	681.8	677.8	618.4	551.0	471.7	384.5	325.0	281.4	269.5
80°	432.1	451.9	467.7	451.9	412.2	360.7	301.2	241.8	198.2	162.5	154.6
82.5°	317.1	340.9	352.8	336.9	297.3	257.6	214.0	170.4	126.8	99.1	91.2
85°	122.9	126.8	142.7	170.4	166.5	162.5	130.8	95.1	71.3	51.5	47.6
87.5°	31.7	27.7	31.7	31.7	27.7	23.8	23.8	23.8	23.8	11.9	15.9
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)