

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: P534429

Luminaire Tested: **GALN-SA9D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36857 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 552
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



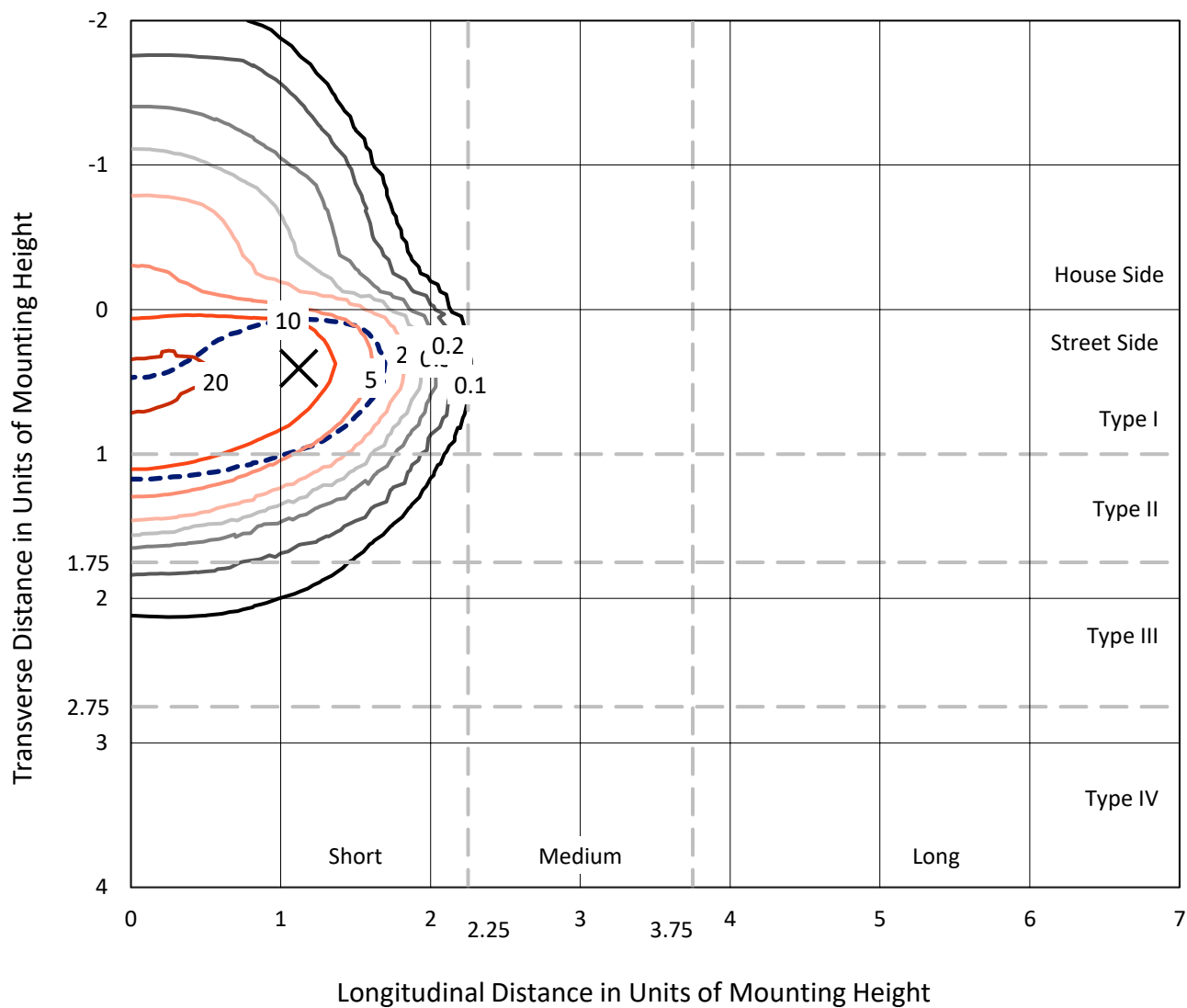
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

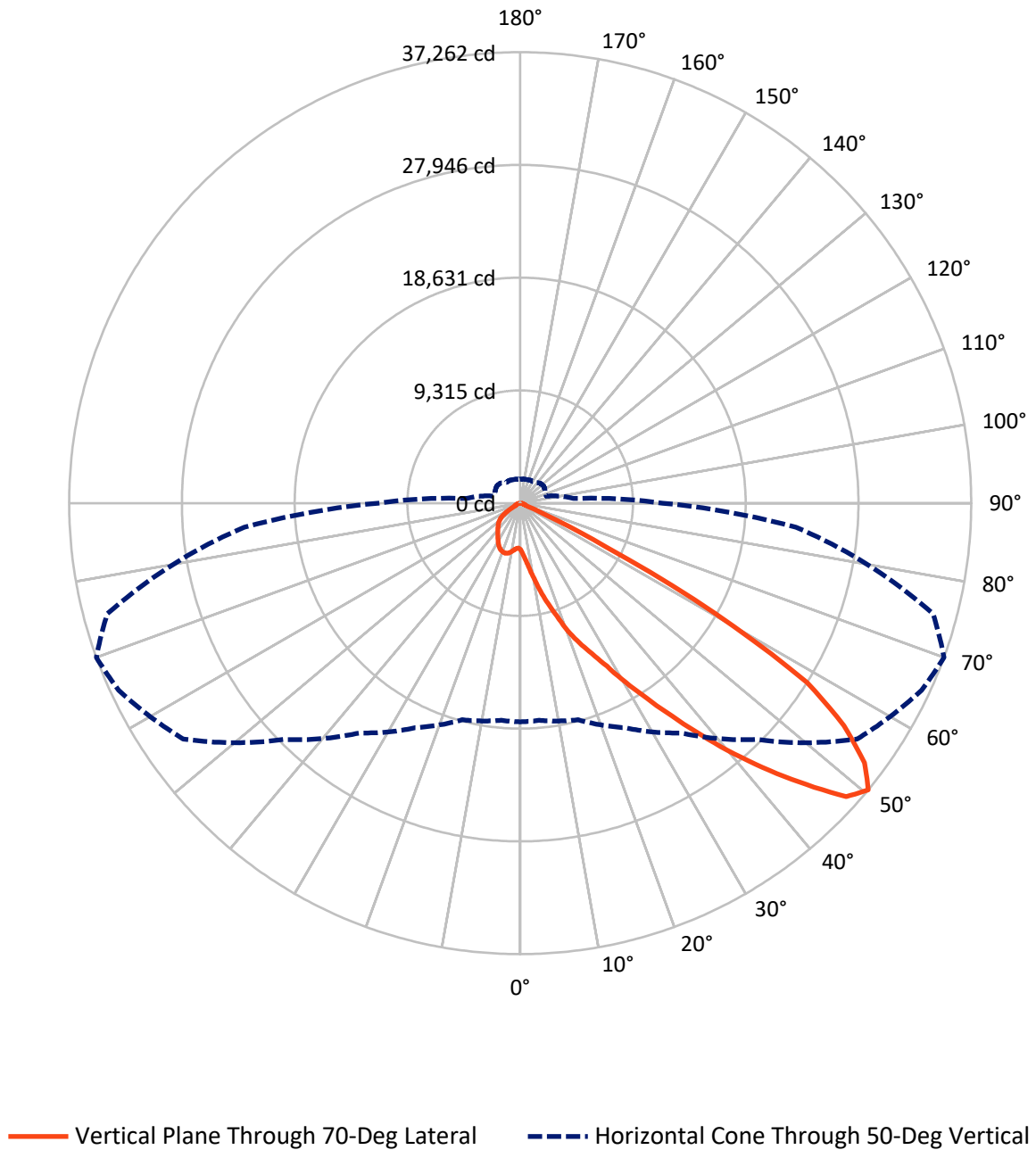


Based on 25 foot mounting height. Maximum calculated value = 21.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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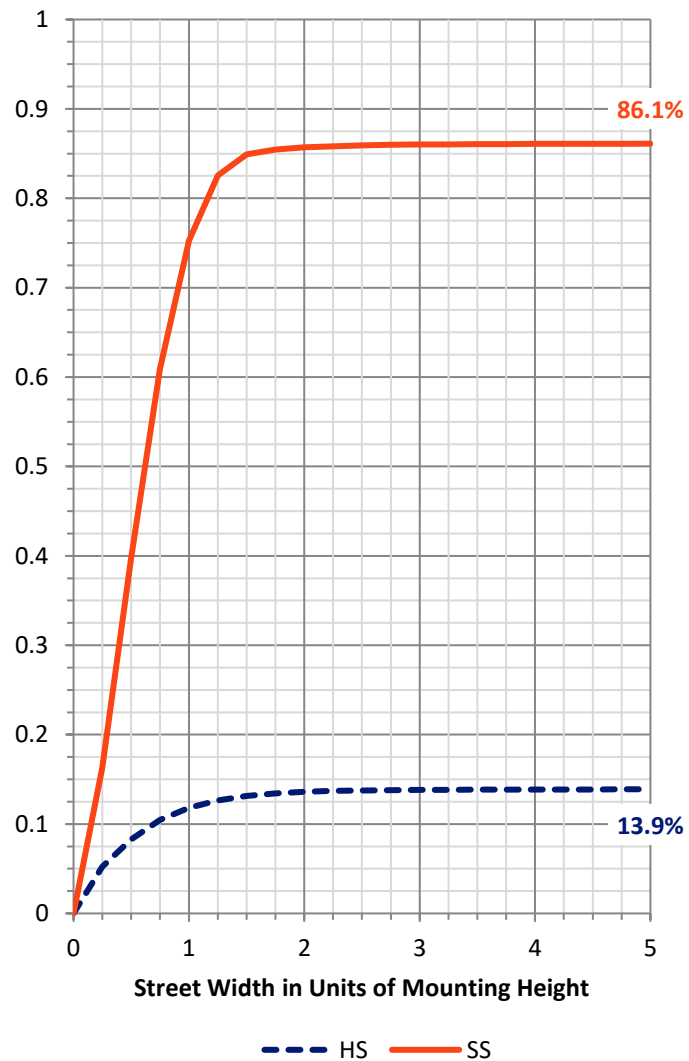
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5147.3	0.0	5147.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	31709.7	0.0	31709.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	36857.0	0.0	36857.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.4	1.3
10°-20°	2147.4	5.8
20°-30°	4504.9	12.2
30°-40°	7764.9	21.1
40°-50°	11348.3	30.8
50°-60°	8838.5	24.0
60°-70°	1497.5	4.1
70°-80°	205.7	0.6
80°-90°	53.3	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°	36857.0	100.0
0°-180°	36857.0	100.0

Coefficient of Utilization



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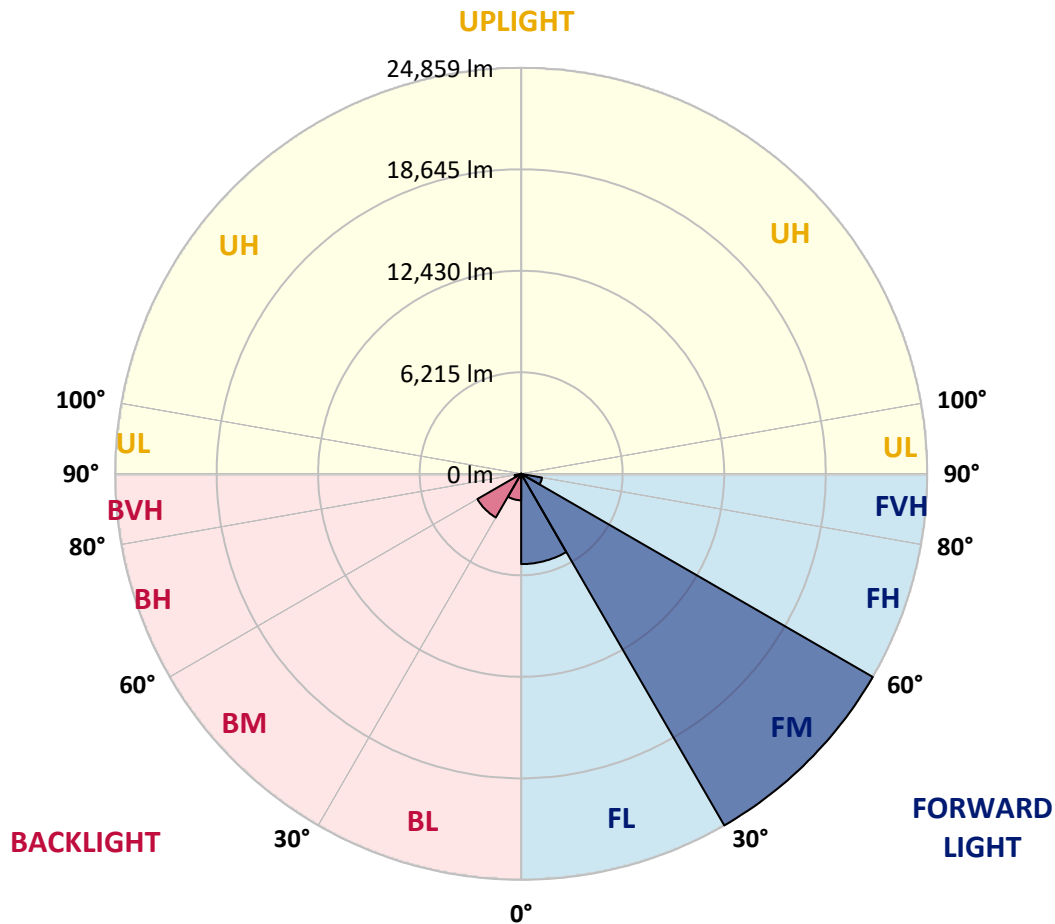
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5529.0	15.0			
FM	(30°-60°)	24859.4	67.4			
FH	(60°-80°)	1296.6	3.5			G1/1800
FVH	(80°-90°)	24.6	0.1			G1/100
BL	(0°-30°)	1619.7	4.4	B3/2500		
BM	(30°-60°)	3092.3	8.4	B3/5000		
BH	(60°-80°)	406.6	1.1	B1/500		G1/500
BVH	(80°-90°)	28.7	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7
2.5°	4999.3	4963.0	4884.2	4738.7	4678.1	4532.7	4447.9	4284.3	4181.2	4066.1	3938.9
5°	7041.5	6853.6	6738.5	6574.9	6096.1	5799.2	5308.4	4890.2	4696.3	4484.2	4193.4
7.5°	9150.3	9029.1	8871.5	8520.0	8192.8	7574.7	6732.4	5811.3	5417.4	5053.9	4478.2
10°	10895.5	10556.1	10538.0	10277.4	9919.9	9180.6	8168.6	7023.3	6320.3	5787.1	4884.2
12.5°	12113.5	11804.4	11943.8	11913.5	11580.2	10901.5	9732.0	8217.1	7483.8	6653.6	5302.3
15°	13222.4	13095.2	13052.8	13016.4	12883.1	12380.1	11331.8	9671.4	8610.9	7611.1	5775.0
17.5°	14307.1	13979.9	14137.5	14167.8	14155.6	13701.2	12719.5	11053.0	9804.7	8623.1	6271.9
20°	15270.6	15300.9	15088.8	15046.4	15010.1	14991.9	14034.4	12422.5	11271.2	9683.5	6920.3
22.5°	16506.8	16294.7	16482.6	16361.4	16125.1	15979.6	15246.4	13634.5	12543.7	10962.1	7580.8
25°	17967.2	18136.9	17694.5	17646.1	17385.5	16882.5	16222.0	14991.9	13767.8	12149.9	8295.8
27.5°	19767.0	19470.1	19354.9	19088.3	18615.6	18403.5	17627.9	16391.7	15246.4	13398.2	8986.6
30°	21312.2	21233.5	20657.8	20342.7	19930.6	19924.5	18839.8	18288.4	17173.4	15355.5	9938.0
32.5°	22572.7	22227.3	22015.2	21797.0	21463.7	21554.6	20639.6	20348.7	19227.7	17173.4	11059.1
35°	23415.0	23166.5	23039.3	22706.0	22609.0	23015.0	22633.3	22512.1	21591.0	19730.6	12374.1
37.5°	23681.6	23760.4	23736.1	23318.0	23524.1	24620.9	25111.7	24796.6	24311.8	22427.2	13798.1
40°	23917.9	23972.5	23851.3	24342.1	24929.9	26178.2	27953.8	27432.6	27250.8	25160.2	15779.7
42.5°	24051.3	24008.8	24008.8	24857.2	25748.0	28256.7	30698.8	30353.4	30214.0	28068.9	18070.3
45°	23475.6	23063.5	23505.9	24657.2	26450.9	29280.8	32892.5	33371.2	33171.2	31529.0	20748.7
47.5°	21324.4	21578.9	21827.3	23366.5	25596.5	28965.7	34237.7	35867.8	36237.5	34437.7	22506.0
50°	18070.3	18015.7	18530.8	20469.9	23178.6	27608.3	33977.2	36588.9	37261.6	35310.3	22875.7
52.5°	13143.7	13543.6	14101.1	16028.1	19239.8	24093.7	30614.0	34728.6	35625.4	34237.7	22633.3
55°	7653.5	7211.1	8465.5	10095.6	13125.5	18173.3	25881.3	30783.7	32444.0	32286.5	21409.2
57.5°	3066.2	2969.3	3399.5	4581.2	6847.5	11265.1	18821.7	25293.5	27953.8	29571.7	18815.6
60°	1345.3	1315.0	1545.2	1866.4	2799.6	5193.2	10295.6	15731.2	18506.6	20663.8	12949.7
62.5°	969.6	957.4	1072.6	1187.7	1478.6	2260.3	4326.7	6338.5	7901.9	9544.1	5799.2
65°	781.7	812.0	890.8	951.4	1090.8	1254.4	1527.1	1763.4	2163.3	2242.1	1278.6
67.5°	636.3	660.5	733.2	799.9	824.1	678.7	702.9	618.1	618.1	551.4	442.4
70°	466.6	472.7	557.5	636.3	509.0	272.7	478.7	478.7	430.2	412.1	375.7
72.5°	345.4	351.5	418.1	393.9	200.0	169.7	351.5	387.8	351.5	333.3	303.0
75°	254.5	260.6	218.2	90.9	84.8	109.1	206.0	266.6	254.5	248.5	230.3
77.5°	48.5	36.4	30.3	42.4	60.6	90.9	133.3	163.6	169.7	181.8	169.7
80°	6.1	6.1	18.2	36.4	66.7	97.0	139.4	157.6	163.6	169.7	157.6
82.5°	0.0	6.1	18.2	36.4	66.7	90.9	121.2	139.4	151.5	157.6	151.5
85°	0.0	6.1	12.1	30.3	54.5	66.7	60.6	42.4	36.4	42.4	30.3
87.5°	0.0	0.0	6.1	6.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7	3817.7
2.5°	3866.1	3841.9	3757.1	3666.2	3587.4	3623.7	3587.4	3557.1	3569.2	3557.1	3545.0
5°	4078.2	3969.2	3787.4	3708.6	3641.9	3635.9	3617.7	3611.6	3617.7	3617.7	3563.1
7.5°	4278.2	4102.5	3908.6	3823.7	3744.9	3751.0	3708.6	3708.6	3702.5	3672.2	3660.1
10°	4581.2	4344.9	4096.4	3944.9	3848.0	3829.8	3787.4	3744.9	3744.9	3744.9	3684.3
12.5°	4914.5	4617.5	4278.2	4102.5	3987.3	3896.4	3829.8	3817.7	3751.0	3738.9	3708.6
15°	5205.3	4829.6	4399.4	4157.0	4011.6	3890.4	3787.4	3720.7	3690.4	3672.2	3648.0
17.5°	5490.2	5011.4	4466.1	4157.0	3999.5	3860.1	3751.0	3690.4	3617.7	3629.8	3581.3
20°	5871.9	5205.3	4484.2	4078.2	3884.3	3751.0	3605.6	3575.3	3532.8	3496.5	3508.6
22.5°	6241.6	5344.7	4429.7	3981.3	3702.5	3545.0	3472.3	3435.9	3417.7	3387.4	3345.0
25°	6574.9	5496.2	4344.9	3805.5	3508.6	3393.5	3326.8	3320.8	3278.3	3278.3	3199.6
27.5°	6914.2	5550.8	4199.4	3599.5	3338.9	3272.3	3242.0	3229.9	3211.7	3169.3	3114.7
30°	7302.0	5568.9	3987.3	3387.4	3187.4	3114.7	3157.1	3187.4	3108.7	3029.9	3054.1
32.5°	7623.2	5526.5	3732.8	3187.4	3078.4	3042.0	3126.8	3157.1	3066.2	2981.4	2939.0
35°	8011.0	5423.5	3484.4	3029.9	2969.3	3042.0	3114.7	3114.7	2932.9	2829.9	2805.7
37.5°	8598.8	5308.4	3254.1	2896.6	2854.2	3005.6	3102.6	3035.9	2751.1	2623.9	2593.6
40°	9229.0	5235.6	3029.9	2763.3	2793.6	2945.1	2999.6	2793.6	2502.7	2423.9	2399.7
42.5°	10144.1	5090.2	2829.9	2648.1	2739.0	2860.2	2860.2	2490.6	2381.5	2339.1	2333.0
45°	11283.3	4987.2	2654.2	2551.2	2660.2	2690.5	2593.6	2333.0	2254.2	2242.1	2248.2
47.5°	11840.8	4787.2	2472.4	2436.0	2514.8	2520.9	2266.4	2205.8	2139.1	2120.9	2108.8
50°	11756.0	4429.7	2236.1	2284.5	2393.6	2333.0	2066.4	2078.5	2017.9	2011.8	1981.5
52.5°	11162.1	3866.1	1999.7	2114.9	2236.1	2060.3	1902.8	1890.7	1890.7	1811.9	1781.6
55°	9895.6	3114.7	1714.9	1860.4	2005.8	1733.1	1690.7	1678.6	1648.3	1575.5	1557.4
57.5°	7835.3	2284.5	1290.7	1448.3	1702.8	1472.5	1466.5	1411.9	1333.2	1278.6	1278.6
60°	4660.0	1315.0	812.0	884.7	1127.1	1193.8	1327.1	1302.9	1169.5	1084.7	1060.5
62.5°	2127.0	678.7	515.1	527.2	606.0	775.7	1042.3	1205.9	1018.0	872.6	860.5
65°	715.1	503.0	424.2	406.0	418.1	466.6	624.2	854.4	812.0	672.6	648.4
67.5°	436.3	448.4	399.9	369.6	369.6	363.6	357.5	387.8	478.7	466.6	472.7
70°	375.7	412.1	369.6	333.3	321.2	303.0	254.5	212.1	181.8	212.1	224.2
72.5°	303.0	327.2	315.1	284.8	254.5	230.3	181.8	139.4	103.0	90.9	90.9
75°	224.2	242.4	254.5	218.2	193.9	163.6	133.3	90.9	54.5	36.4	36.4
77.5°	163.6	181.8	187.9	169.7	145.4	115.1	84.8	60.6	30.3	12.1	12.1
80°	139.4	163.6	181.8	169.7	151.5	109.1	78.8	42.4	24.2	6.1	6.1
82.5°	133.3	163.6	181.8	163.6	145.4	103.0	78.8	48.5	18.2	6.1	6.1
85°	30.3	42.4	54.5	66.7	78.8	78.8	60.6	36.4	18.2	6.1	6.1
87.5°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	6.1	6.1	0.0
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)