

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: P532091

Luminaire Tested: **GALN-SA7B-830-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-830-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18808 lumens
Efficiency: N/A
Efficacy: 65.8 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

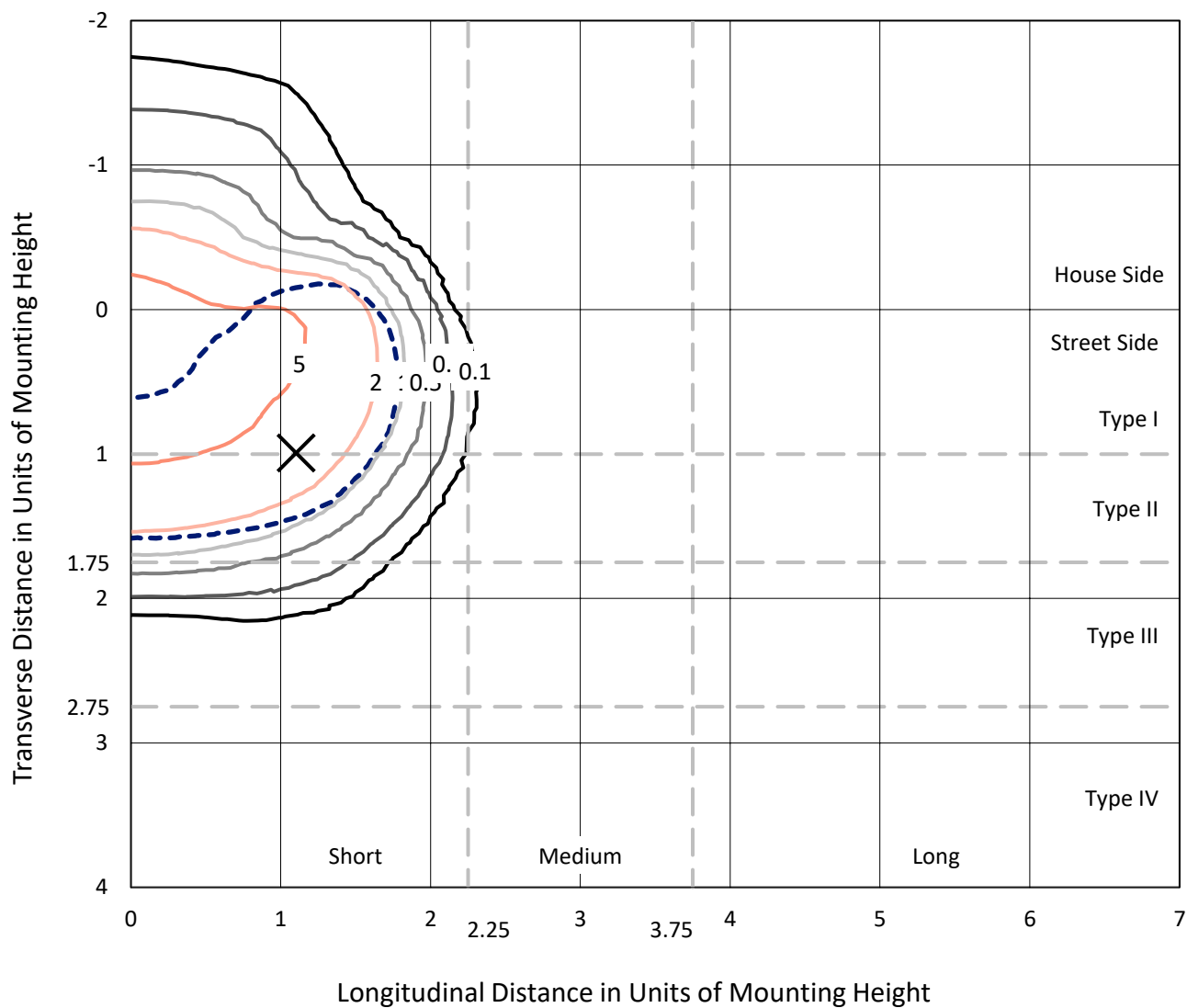
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

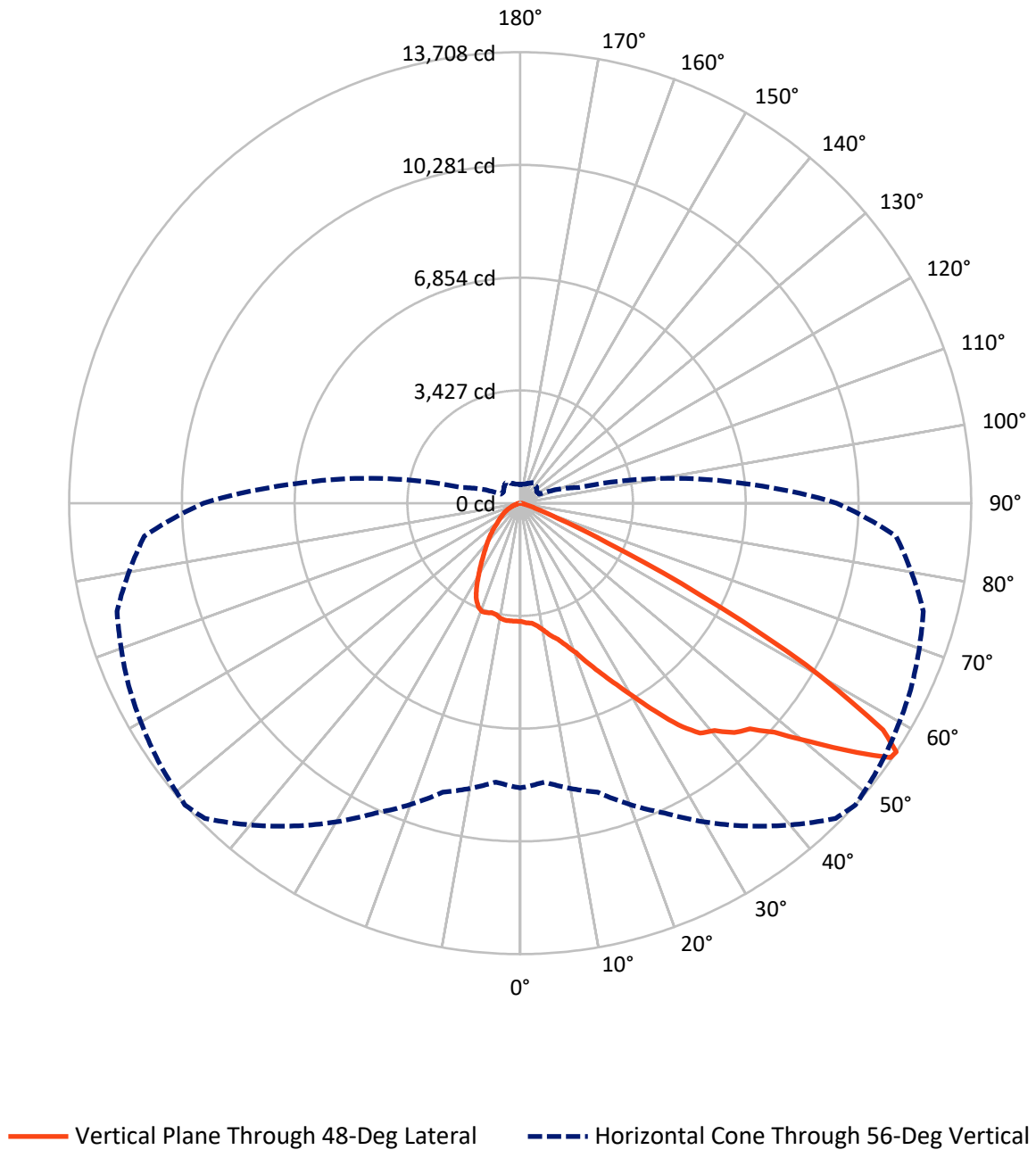
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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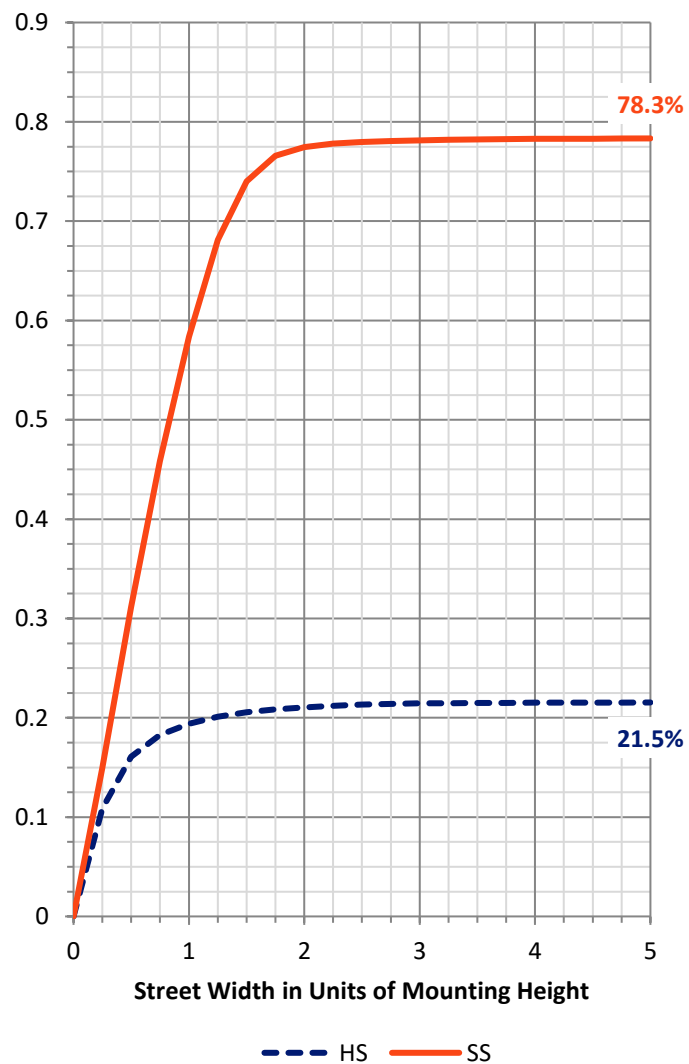
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4090.4	0.0	4090.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	14717.6	0.0	14717.6
	% Fixture	78.3	0.0	78.3
Total	Lumens	18808.0	0.0	18808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	349.9	1.9
10°-20°	1118.3	5.9
20°-30°	2028.4	10.8
30°-40°	3186.2	16.9
40°-50°	4648.1	24.7
50°-60°	5600.1	29.8
60°-70°	1639.7	8.7
70°-80°	208.0	1.1
80°-90°	29.2	0.2
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°	18808.0	100.0
0°-180°	18808.0	100.0

Coefficient of Utilization



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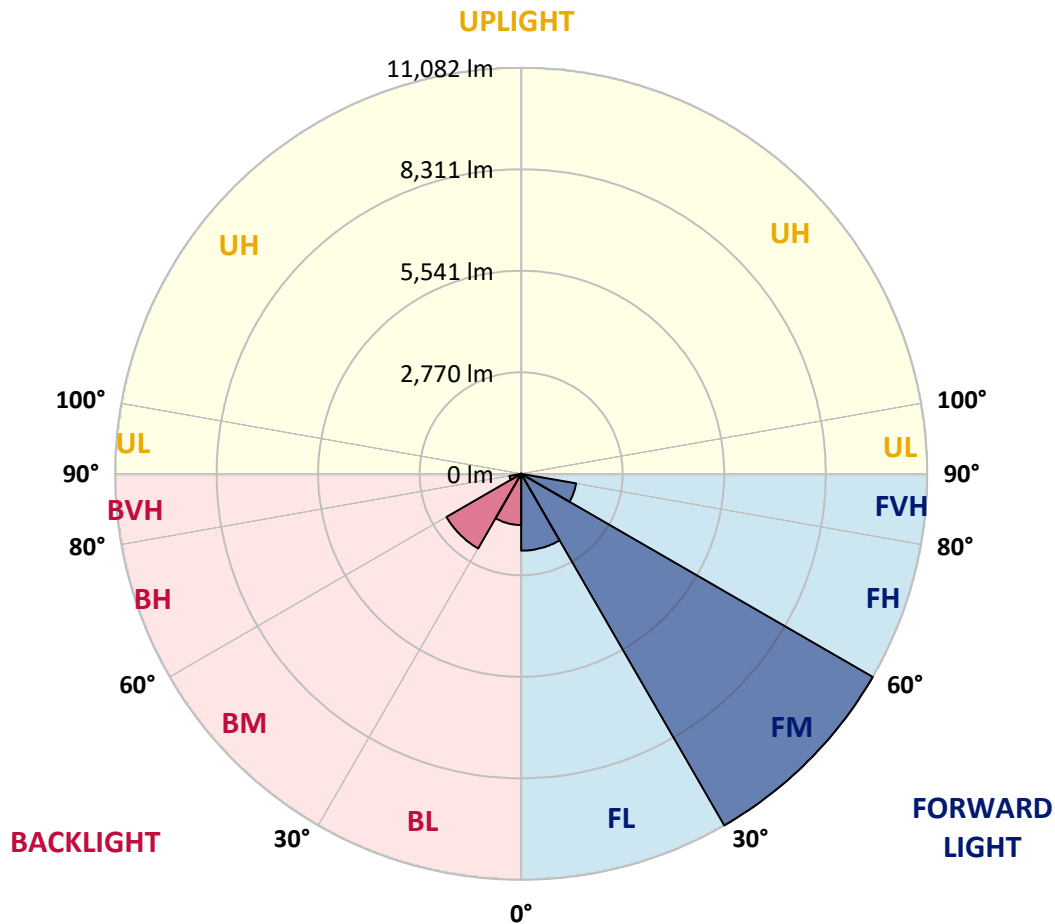
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2098.6	11.2			
FM	(30°-60°)	11081.7	58.9			
FH	(60°-80°)	1522.7	8.1			G1/1800
FVH	(80°-90°)	14.6	0.1			G1/100
BL	(0°-30°)	1398.1	7.4	B3/2500		
BM	(30°-60°)	2352.8	12.5	B2/2500		
BH	(60°-80°)	325.0	1.7	B1/500		G1/500
BVH	(80°-90°)	14.5	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
2.5°	3657.4	3640.3	3640.3	3612.9	3643.7	3630.0	3640.3	3606.0	3640.3	3588.9	3630.0
5°	3674.5	3677.9	3664.3	3681.4	3681.4	3701.9	3667.7	3698.5	3715.6	3677.9	3660.8
7.5°	3763.6	3770.4	3767.0	3753.3	3780.7	3777.3	3773.8	3749.9	3756.7	3743.0	3722.5
10°	3938.2	3934.8	3951.9	3917.7	3897.1	3921.1	3927.9	3890.3	3862.9	3852.6	3787.5
12.5°	4191.6	4150.5	4126.6	4092.3	4102.6	4068.3	4130.0	4064.9	4051.2	3989.6	3924.5
15°	4397.1	4390.3	4393.7	4338.9	4277.2	4290.9	4290.9	4256.7	4236.1	4160.8	4068.3
17.5°	4818.3	4674.5	4705.3	4636.8	4585.5	4582.0	4551.2	4558.1	4503.3	4345.7	4205.3
20°	5147.1	5085.4	5037.5	4921.1	4842.3	4866.3	4852.6	4818.3	4801.2	4595.7	4397.1
22.5°	5441.6	5462.1	5383.4	5352.5	5243.0	5253.2	5280.6	5249.8	5119.7	4907.4	4612.8
25°	5856.0	5832.0	5725.8	5688.2	5585.4	5623.1	5729.2	5705.3	5623.1	5239.5	4780.6
27.5°	6345.7	6263.5	6284.0	6112.8	6013.5	6119.6	6246.3	6366.2	6133.3	5629.9	4979.3
30°	6691.5	6605.9	6599.1	6592.2	6568.3	6691.5	6838.8	6948.4	6760.0	6020.3	5308.0
32.5°	6862.8	6883.3	6941.5	6921.0	7129.9	7383.3	7537.4	7694.9	7458.6	6657.3	5742.9
35°	7318.2	7188.1	7318.2	7331.9	7547.7	8085.3	8280.5	8657.2	8599.0	7557.9	6273.7
37.5°	7585.3	7575.1	7592.2	7722.3	7931.2	8595.6	8873.0	9164.1	9054.5	8099.0	6934.7
40°	8027.1	8054.5	8051.1	8150.4	8379.8	8979.1	9092.1	9328.4	9338.7	8849.0	7907.2
42.5°	8736.0	8626.4	8554.5	8657.2	8979.1	9311.3	9537.3	9489.4	9828.4	9759.9	9157.2
45°	9372.9	9438.0	9331.9	9503.1	9619.5	9797.6	9790.7	9893.5	10325.0	10650.3	10099.0
47.5°	9968.8	10009.9	10061.3	10177.7	10431.1	10458.5	10400.3	10355.8	10951.7	11287.3	10828.4
50°	10325.0	10362.6	10602.4	10811.3	11283.8	11345.5	11379.7	11266.7	11670.8	11708.5	11516.7
52.5°	10229.1	10270.2	10605.8	11294.1	12047.5	12612.6	12509.8	12318.0	12294.1	12441.3	12153.7
55°	9379.8	9342.1	9804.4	10876.3	12287.2	13643.3	13657.0	13455.0	13068.0	12968.7	12057.8
56°	8657.2	8510.0	9099.0	10393.5	11979.0	13554.3	13708.4	13492.7	13129.7	12684.5	11465.3
57.5°	7092.2	7232.6	7818.2	8890.1	10914.0	12913.9	13003.0	12951.6	12677.6	11931.1	10088.7
60°	3910.8	4157.4	4674.5	5986.1	7770.3	9910.6	9982.5	10400.3	10451.7	9136.7	6941.5
62.5°	1660.9	1633.5	2171.2	3136.9	4424.5	5982.7	6116.2	6544.3	6623.0	5266.9	3482.8
65°	674.6	712.3	982.8	1578.7	2339.0	2725.9	2914.3	3054.7	3314.9	2174.6	1284.2
67.5°	445.2	441.8	578.7	900.7	1260.2	1215.7	1215.7	1284.2	1188.3	887.0	554.8
70°	318.5	328.8	414.4	623.3	784.2	582.2	558.2	534.2	606.1	585.6	448.6
72.5°	208.9	222.6	277.4	373.3	407.5	318.5	318.5	383.5	500.0	472.6	366.4
75°	137.0	140.4	171.2	215.7	202.0	164.4	181.5	256.8	363.0	349.3	260.3
77.5°	92.5	95.9	116.4	140.4	113.0	92.5	99.3	130.1	178.1	178.1	137.0
80°	34.2	37.7	47.9	44.5	51.4	65.1	71.9	89.0	106.2	106.2	92.5
82.5°	0.0	3.4	10.3	24.0	37.7	51.4	58.2	68.5	78.8	89.0	85.6
85°	0.0	3.4	10.3	17.1	27.4	30.8	34.2	24.0	20.5	20.5	17.1
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	3.4	3.4	6.8	3.4	3.4
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°	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3	3592.3
2.5°	3592.3	3588.9	3588.9	3578.6	3599.2	3588.9	3595.8	3592.3	3547.8	3582.1	3558.1
5°	3630.0	3654.0	3616.3	3609.5	3582.1	3592.3	3592.3	3558.1	3588.9	3585.5	3578.6
7.5°	3725.9	3684.8	3643.7	3602.6	3595.8	3585.5	3547.8	3534.1	3558.1	3530.7	3571.8
10°	3767.0	3773.8	3712.2	3657.4	3606.0	3534.1	3482.8	3451.9	3414.3	3455.4	3479.3
12.5°	3955.3	3886.8	3780.7	3695.1	3520.4	3448.5	3397.1	3383.4	3448.5	3462.2	3438.2
15°	4020.4	4010.1	3873.1	3681.4	3499.9	3414.3	3424.5	3397.1	3404.0	3369.7	3376.6
17.5°	4154.0	4037.5	3876.6	3636.9	3496.4	3475.9	3414.3	3304.7	3243.0	3215.6	3239.6
20°	4301.2	4188.2	3955.3	3654.0	3527.3	3472.5	3270.4	3136.9	3010.2	2941.7	2945.1
22.5°	4431.3	4290.9	3921.1	3660.8	3554.7	3328.6	3085.5	2821.8	2664.3	2558.1	2561.6
25°	4588.9	4390.3	3934.8	3674.5	3482.8	3099.2	2749.9	2493.1	2304.7	2232.8	2256.8
27.5°	4677.9	4451.9	4010.1	3705.3	3294.4	2773.9	2397.2	2157.5	2047.9	2013.6	2010.2
30°	4945.0	4588.9	4102.6	3643.7	2979.3	2424.6	2075.3	1928.0	1821.9	1791.0	1797.9
32.5°	5342.3	4838.9	4222.5	3482.8	2657.4	2112.9	1866.4	1756.8	1657.5	1599.3	1592.4
35°	5674.5	5266.9	4349.2	3232.8	2284.2	1873.2	1719.1	1582.1	1431.5	1366.4	1349.3
37.5°	6308.0	5749.8	4321.8	2856.1	1928.0	1695.1	1561.6	1393.8	1263.7	1174.6	1164.3
40°	7150.4	6314.8	4188.2	2397.2	1664.3	1537.6	1393.8	1232.8	1071.9	996.5	989.7
42.5°	8174.4	7006.6	3945.1	1931.4	1400.6	1380.1	1250.0	1065.0	921.2	866.4	869.8
45°	9006.5	7599.0	3698.5	1551.3	1205.4	1226.0	1113.0	938.3	839.0	794.5	794.5
47.5°	9746.2	7999.7	3431.4	1280.8	1023.9	1071.9	972.6	869.8	784.2	750.0	743.1
50°	10458.5	8407.2	3164.3	1037.6	873.3	921.2	910.9	828.7	760.2	719.2	722.6
52.5°	10903.7	8472.3	2825.2	849.3	763.7	818.5	852.7	777.4	702.0	678.1	671.2
55°	10359.2	7633.3	2191.7	698.6	647.2	719.2	784.2	698.6	640.4	599.3	595.9
56°	9626.4	6825.1	1832.1	643.8	613.0	691.8	760.2	667.8	602.7	578.7	561.6
57.5°	8150.4	5585.4	1352.7	571.9	568.5	643.8	722.6	637.0	561.6	541.1	541.1
60°	5082.0	3143.7	818.5	479.4	493.1	571.9	650.7	568.5	500.0	500.0	510.3
62.5°	2315.0	1308.2	496.6	407.5	424.6	493.1	578.7	513.7	476.0	513.7	520.5
65°	787.6	565.0	359.6	325.3	335.6	407.5	496.6	520.5	517.1	541.1	554.8
67.5°	441.8	363.0	301.4	270.5	263.7	301.4	407.5	520.5	500.0	489.7	496.6
70°	373.3	308.2	267.1	239.7	229.4	243.1	315.1	393.8	352.7	342.5	335.6
72.5°	301.4	256.8	232.9	215.7	184.9	157.5	143.8	150.7	167.8	178.1	195.2
75°	212.3	195.2	195.2	174.7	133.6	99.3	78.8	65.1	44.5	30.8	34.2
77.5°	119.9	119.9	123.3	106.2	85.6	65.1	47.9	34.2	17.1	6.8	3.4
80°	82.2	89.0	95.9	85.6	71.9	58.2	41.1	24.0	10.3	0.0	0.0
82.5°	82.2	92.5	99.3	85.6	71.9	54.8	41.1	24.0	10.3	3.4	0.0
85°	17.1	20.5	24.0	27.4	41.1	41.1	30.8	20.5	10.3	3.4	0.0
87.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	0.0	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)