

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: P533468

Luminaire Tested: **GALN-SA8D-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533468
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-SA8D-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 40353 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

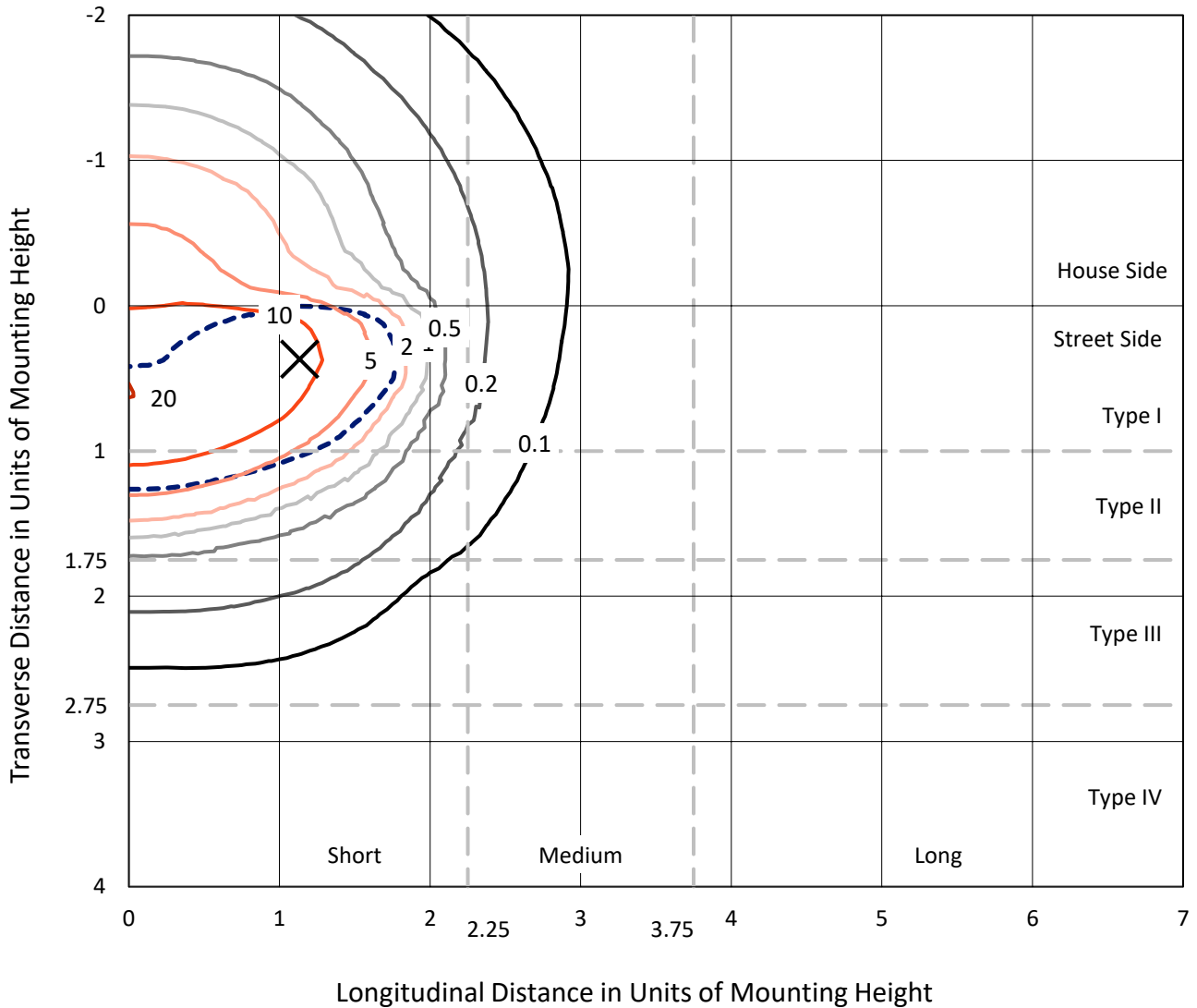
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

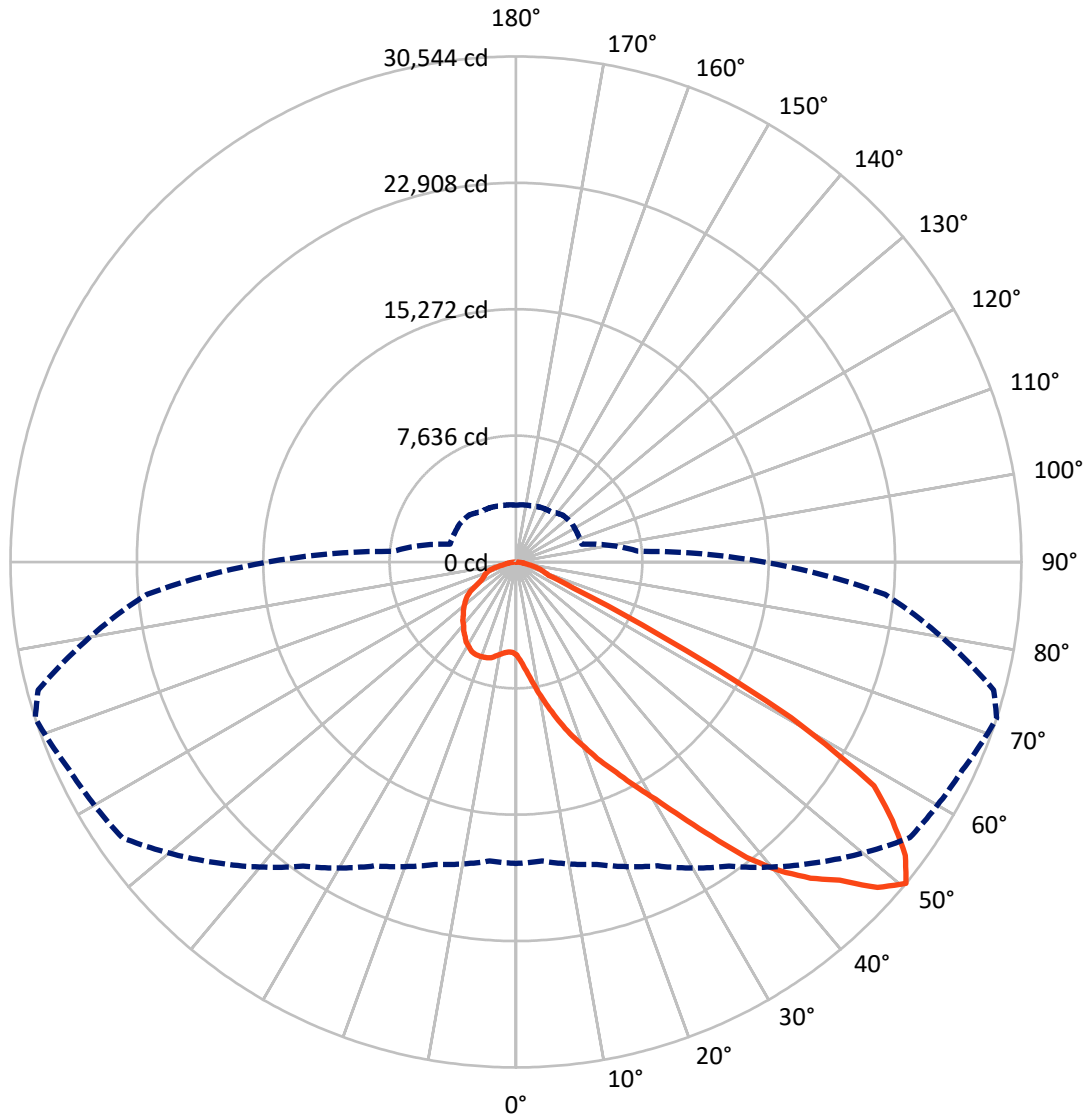
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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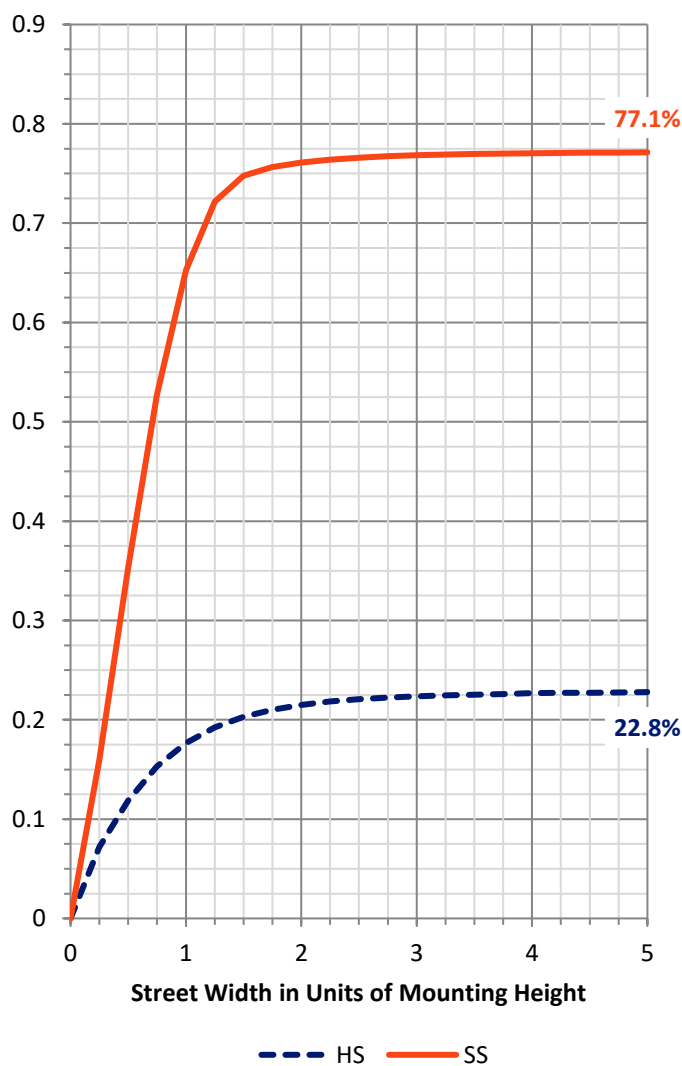
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9245.1	0.0	9245.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	31107.9	0.0	31107.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	40353.0	0.0	40353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	660.8	1.6
10°-20°	2470.1	6.1
20°-30°	4789.4	11.9
30°-40°	7934.4	19.7
40°-50°	11102.0	27.5
50°-60°	9365.9	23.2
60°-70°	2854.7	7.1
70°-80°	1001.5	2.5
80°-90°	174.1	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°	40353.0	100.0
0°-180°	40353.0	100.0

Coefficient of Utilization



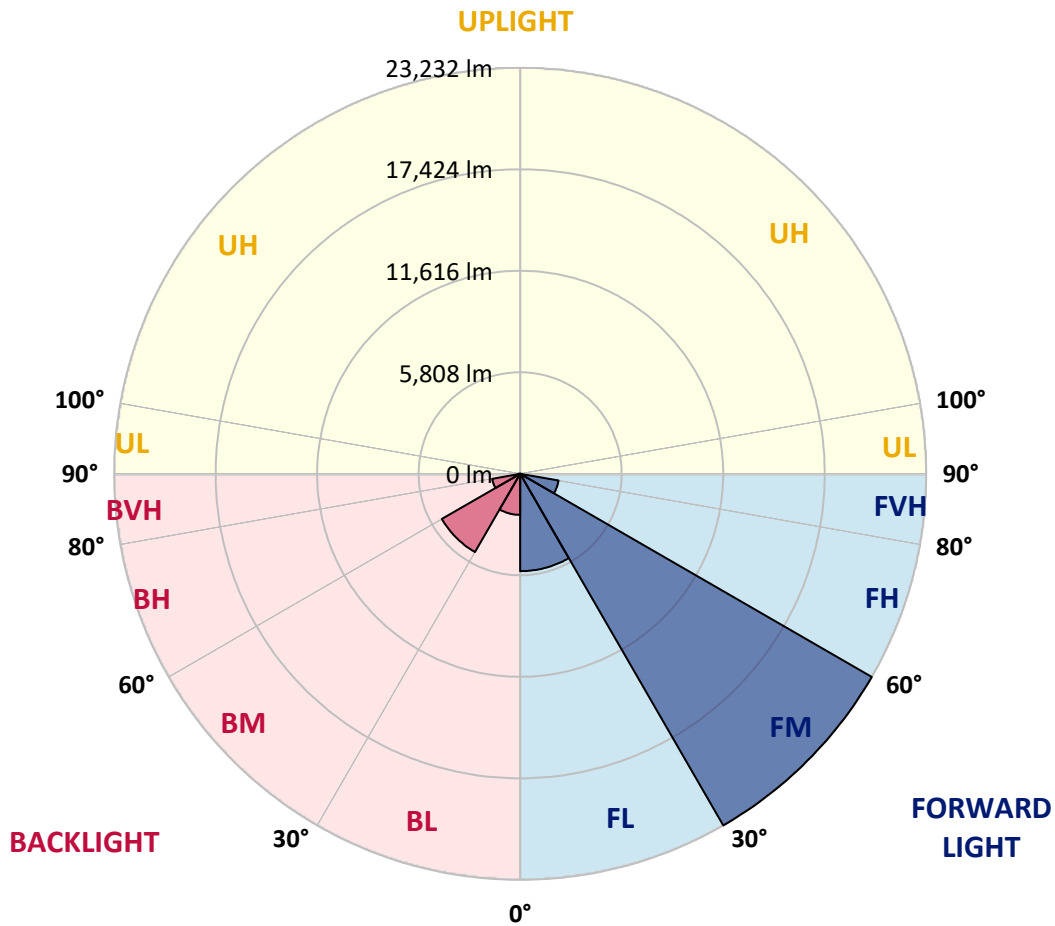
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5570.2	13.8			
FM (30°-60°)	23232.3	57.6			
FH (60°-80°)	2227.4	5.5			G2/5000
FVH (80°-90°)	78.0	0.2			G1/100
BL (0°-30°)	2350.1	5.8	B3/2500		
BM (30°-60°)	5170.0	12.8	B4/8500		
BH (60°-80°)	1628.8	4.0	B3/2500		G3/2500
BVH (80°-90°)	96.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5
2.5°	7225.3	7180.4	7045.6	7000.6	6840.8	6551.2	6451.4	6156.8	6031.9	5917.1	5782.3
5°	9137.8	8928.1	8913.1	8658.4	8288.9	8074.2	7435.0	7005.6	6611.2	6411.4	6041.9
7.5°	10356.1	10361.1	10361.1	10151.4	9856.8	9312.5	8738.3	7964.3	7370.1	7075.5	6446.4
10°	11514.6	11414.7	11359.8	11339.8	11140.1	10610.8	9996.6	9037.9	8224.0	7879.5	6751.0
12.5°	12333.5	12248.6	12373.4	12308.5	12163.7	11819.2	11240.0	10146.4	9127.8	8663.4	7240.3
15°	12723.0	12782.9	12882.8	13062.5	12997.6	12867.8	12228.6	11284.9	10101.5	9577.2	7674.7
17.5°	13322.2	13157.4	13277.2	13501.9	13681.7	13621.8	13257.3	12108.8	11065.2	10421.1	8258.9
20°	13741.6	13646.7	13706.7	13966.3	14101.1	14440.7	14250.9	13187.4	11989.0	11309.9	8948.0
22.5°	14940.0	14800.2	14605.5	14645.4	14695.3	14935.0	14980.0	14370.8	13062.5	12343.5	9602.1
25°	16418.0	16288.2	16058.5	15823.8	15679.0	15634.1	15788.9	15299.5	14091.1	13347.1	10306.2
27.5°	18045.8	17826.1	17681.3	17197.0	16807.5	16747.6	16672.7	16408.0	15309.5	14505.6	11100.1
30°	19628.7	19454.0	19259.2	18485.3	18080.8	18015.9	17646.4	17721.3	16632.7	15738.9	11998.9
32.5°	20827.1	20842.1	20397.7	19813.5	19434.0	19089.5	18954.6	19169.3	18330.5	17611.4	13002.6
35°	21795.8	21840.8	21416.3	20887.0	20477.6	20717.3	20657.4	20757.2	20357.8	19478.9	14171.0
37.5°	22739.6	22514.9	22060.5	21805.8	21591.1	21985.6	22494.9	22579.8	22654.7	21621.1	15529.2
40°	22894.4	22914.3	22649.7	22829.4	22559.8	23154.0	24337.4	24227.6	24532.2	23628.4	17002.2
42.5°	22674.7	22719.6	22824.5	23079.1	23728.2	24442.3	26199.9	25750.5	26120.0	25316.1	18435.3
45°	22315.1	22130.4	22260.2	23228.9	24352.4	25940.3	27902.7	27553.1	27433.3	26759.2	20143.0
47.5°	20597.4	20787.2	21191.6	22385.0	24072.8	26199.9	29111.0	29031.1	29390.7	28916.3	21696.0
50°	18215.6	18140.7	18919.7	20262.9	22440.0	25690.6	29046.1	29770.2	30544.1	29885.0	22390.0
52.5°	13641.7	14041.2	14710.3	16378.1	19483.9	22914.3	27628.0	28836.4	29465.6	29325.8	21830.8
55°	8623.5	8743.3	9147.8	11130.1	13926.4	18390.4	23683.3	26484.6	27608.1	28132.3	21316.5
57.5°	4189.4	3964.7	4459.0	6051.9	8044.2	12368.4	18265.6	23069.1	25510.9	26459.6	20198.0
60°	2187.1	2272.0	2466.7	3035.9	4159.4	6421.4	11384.8	15374.4	19104.4	20562.5	15309.5
62.5°	1812.6	1842.5	1972.4	2257.0	2766.3	3695.1	5812.2	7495.0	9742.0	11055.2	8708.3
65°	1537.9	1552.9	1692.7	1882.5	2207.0	2601.5	2991.0	3130.8	3789.9	3889.8	3095.9
67.5°	1283.3	1298.3	1448.1	1627.8	1837.5	1942.4	2042.3	2032.3	2107.2	2077.2	2072.2
70°	988.7	1003.7	1158.4	1348.2	1453.1	1393.1	1702.7	1772.6	1802.6	1827.6	1867.5
72.5°	714.0	744.0	863.8	998.7	943.7	1083.5	1403.1	1508.0	1547.9	1562.9	1612.8
75°	519.3	529.3	559.3	519.3	599.2	754.0	988.7	1118.5	1168.4	1183.4	1258.3
77.5°	229.7	234.7	239.7	299.6	384.5	469.4	589.2	694.1	764.0	784.0	803.9
80°	119.8	124.8	154.8	204.7	274.6	344.5	429.4	489.3	534.3	539.3	559.3
82.5°	74.9	79.9	109.9	144.8	194.7	254.7	314.6	364.5	399.5	404.5	409.5
85°	35.0	44.9	64.9	89.9	129.8	164.8	169.8	144.8	154.8	159.8	149.8
87.5°	10.0	15.0	20.0	15.0	20.0	20.0	25.0	30.0	30.0	30.0	35.0
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°	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5	5617.5
2.5°	5707.4	5662.4	5487.7	5422.7	5253.0	5282.9	5193.0	5188.1	5168.1	5163.1	5158.1
5°	5847.2	5707.4	5497.6	5337.9	5243.0	5233.0	5168.1	5168.1	5188.1	5203.0	5168.1
7.5°	6076.9	5917.1	5562.6	5412.8	5327.9	5312.9	5267.9	5233.0	5277.9	5263.0	5223.0
10°	6341.5	6061.9	5687.4	5557.6	5417.7	5382.8	5382.8	5397.8	5322.9	5347.8	5307.9
12.5°	6636.1	6261.6	5847.2	5697.4	5532.6	5512.6	5502.6	5392.8	5432.7	5412.8	5312.9
15°	7010.6	6491.3	6051.9	5797.2	5657.4	5567.5	5437.7	5417.7	5392.8	5342.8	5297.9
17.5°	7415.1	6741.0	6146.8	5827.2	5617.5	5552.6	5452.7	5347.8	5272.9	5282.9	5248.0
20°	7759.6	6970.7	6181.7	5857.2	5587.5	5462.7	5307.9	5243.0	5163.1	5158.1	5153.1
22.5°	8169.1	7280.3	6231.7	5777.3	5497.6	5367.8	5263.0	5148.1	5093.2	5023.3	5058.2
25°	8658.4	7400.1	6241.6	5732.3	5432.7	5203.0	5148.1	5023.3	5003.3	4903.4	4923.4
27.5°	9012.9	7465.0	6161.8	5592.5	5282.9	5108.2	5008.3	4918.4	4883.5	4808.6	4788.6
30°	9487.3	7564.9	5992.0	5417.7	5133.1	4938.4	4878.5	4858.5	4758.6	4678.7	4668.8
32.5°	10026.6	7629.8	5882.1	5238.0	4978.3	4828.5	4858.5	4763.6	4638.8	4568.9	4548.9
35°	10456.0	7654.8	5607.5	5033.3	4873.5	4778.6	4743.7	4723.7	4543.9	4479.0	4429.1
37.5°	11110.1	7599.8	5377.8	4888.5	4758.6	4723.7	4693.7	4558.9	4354.2	4259.3	4189.4
40°	11874.1	7584.8	5083.2	4683.7	4648.8	4688.7	4598.8	4389.1	4104.5	3999.6	3949.7
42.5°	12608.1	7689.7	4898.4	4573.9	4528.9	4543.9	4419.1	4104.5	3964.7	3904.8	3824.9
45°	13836.5	7909.4	4593.9	4404.1	4384.1	4374.1	4224.3	3894.8	3814.9	3740.0	3725.0
47.5°	14945.0	7764.6	4399.1	4229.3	4249.3	4194.4	3874.8	3770.0	3680.1	3605.2	3580.2
50°	15009.9	7420.1	4124.5	4094.5	4099.5	4004.6	3700.0	3630.1	3515.3	3465.4	3430.4
52.5°	14670.4	6855.8	3869.8	3879.8	3894.8	3740.0	3485.3	3435.4	3340.5	3270.6	3250.6
55°	13716.6	5977.0	3620.2	3660.1	3700.0	3405.4	3325.5	3200.7	3125.8	3026.0	3030.9
57.5°	12083.8	4813.6	3270.6	3335.5	3420.4	3095.9	3035.9	2881.1	2771.3	2691.4	2681.4
60°	8099.2	3425.4	2746.3	2771.3	2961.0	2831.2	2826.2	2671.4	2521.6	2451.7	2411.8
62.5°	4778.6	2616.5	2371.8	2346.9	2341.9	2416.8	2541.6	2486.7	2291.9	2157.1	2197.1
65°	2501.7	2262.0	2207.0	2122.2	2072.2	2052.3	2147.1	2172.1	2042.3	1897.5	1887.5
67.5°	2102.2	2102.2	2057.2	2027.3	1957.4	1872.5	1812.6	1732.7	1712.7	1672.8	1622.8
70°	1912.4	1962.4	1947.4	1877.5	1817.6	1722.7	1567.9	1438.1	1313.2	1268.3	1298.3
72.5°	1667.8	1717.7	1717.7	1682.7	1602.9	1458.0	1308.2	1158.4	1053.6	973.7	963.7
75°	1283.3	1308.2	1368.2	1328.2	1223.4	1133.5	978.7	823.9	724.0	649.1	634.2
77.5°	818.9	858.9	858.9	853.9	779.0	694.1	594.2	484.4	409.5	354.5	339.5
80°	544.3	569.2	589.2	569.2	519.3	454.4	379.5	304.6	249.7	204.7	194.7
82.5°	399.5	429.4	444.4	424.4	374.5	324.6	269.6	214.7	159.8	124.8	114.8
85°	154.8	159.8	179.8	214.7	209.7	204.7	164.8	119.8	89.9	64.9	59.9
87.5°	39.9	35.0	39.9	39.9	35.0	30.0	30.0	30.0	30.0	15.0	20.0
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)