

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: P532896

Luminaire Tested: **GALN-SA8B-735-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532896
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-SA8B-735-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 800mA 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: 37613 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

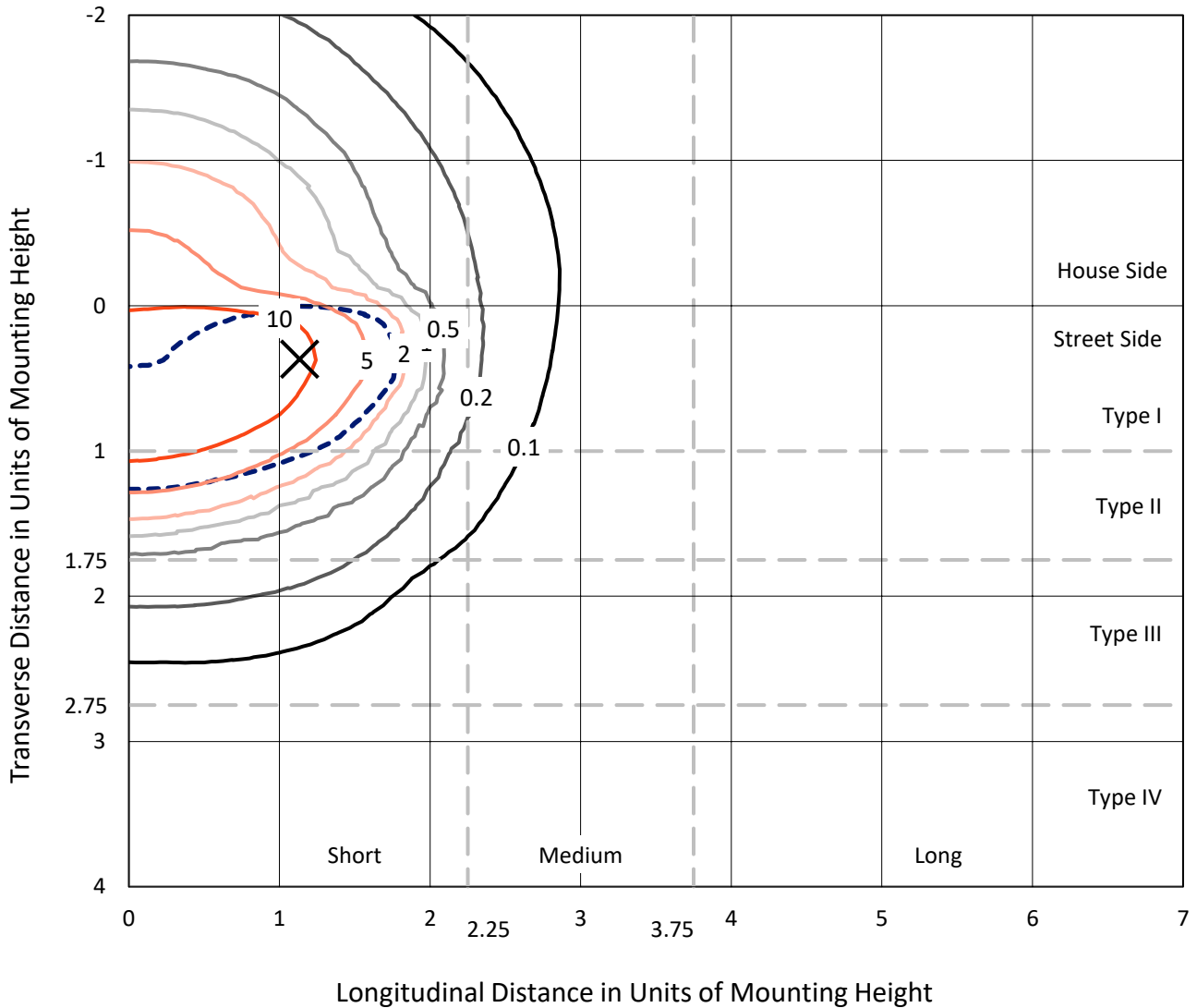
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

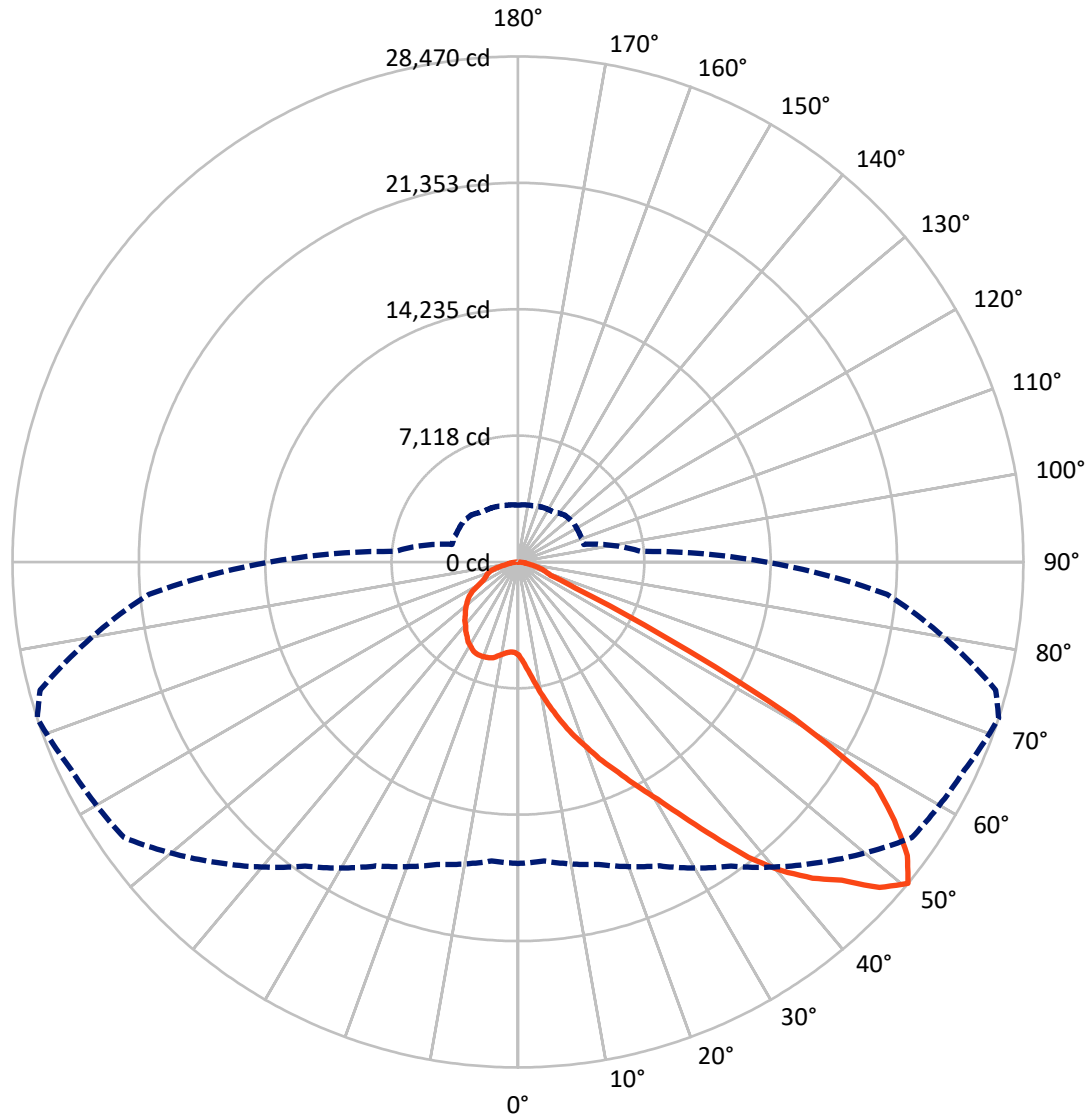
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.7 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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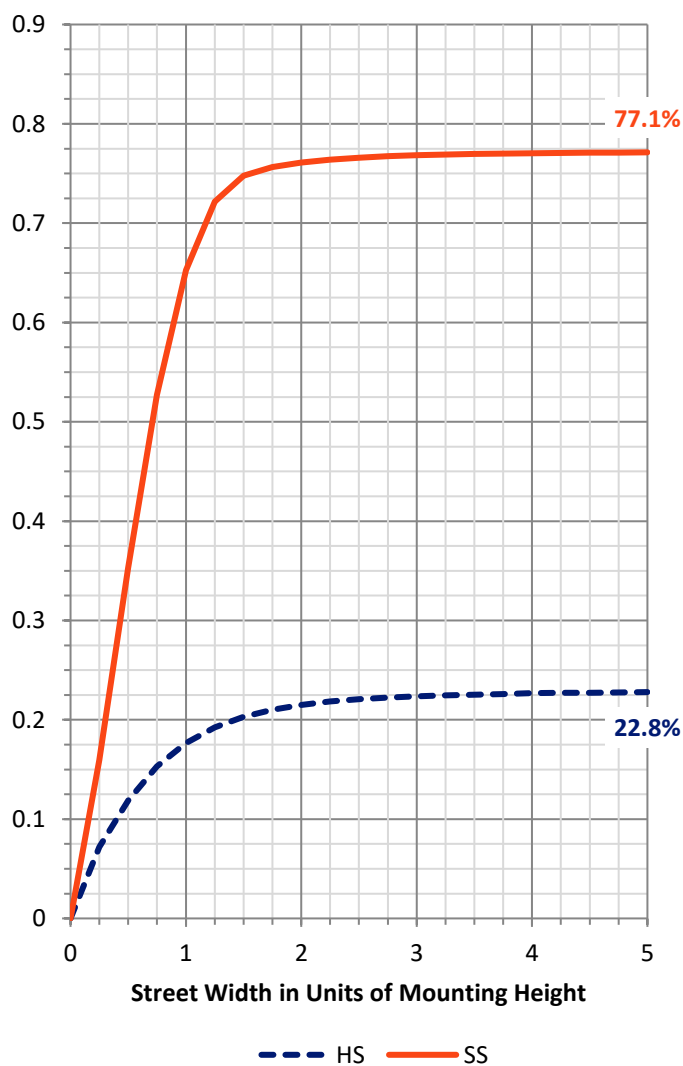
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8617.4	0.0	8617.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	28995.6	0.0	28995.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	37613.0	0.0	37613.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.9	1.6
10°-20°	2302.4	6.1
20°-30°	4464.2	11.9
30°-40°	7395.7	19.7
40°-50°	10348.1	27.5
50°-60°	8730.0	23.2
60°-70°	2660.9	7.1
70°-80°	933.5	2.5
80°-90°	162.3	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°	37613.0	100.0
0°-180°	37613.0	100.0

Coefficient of Utilization



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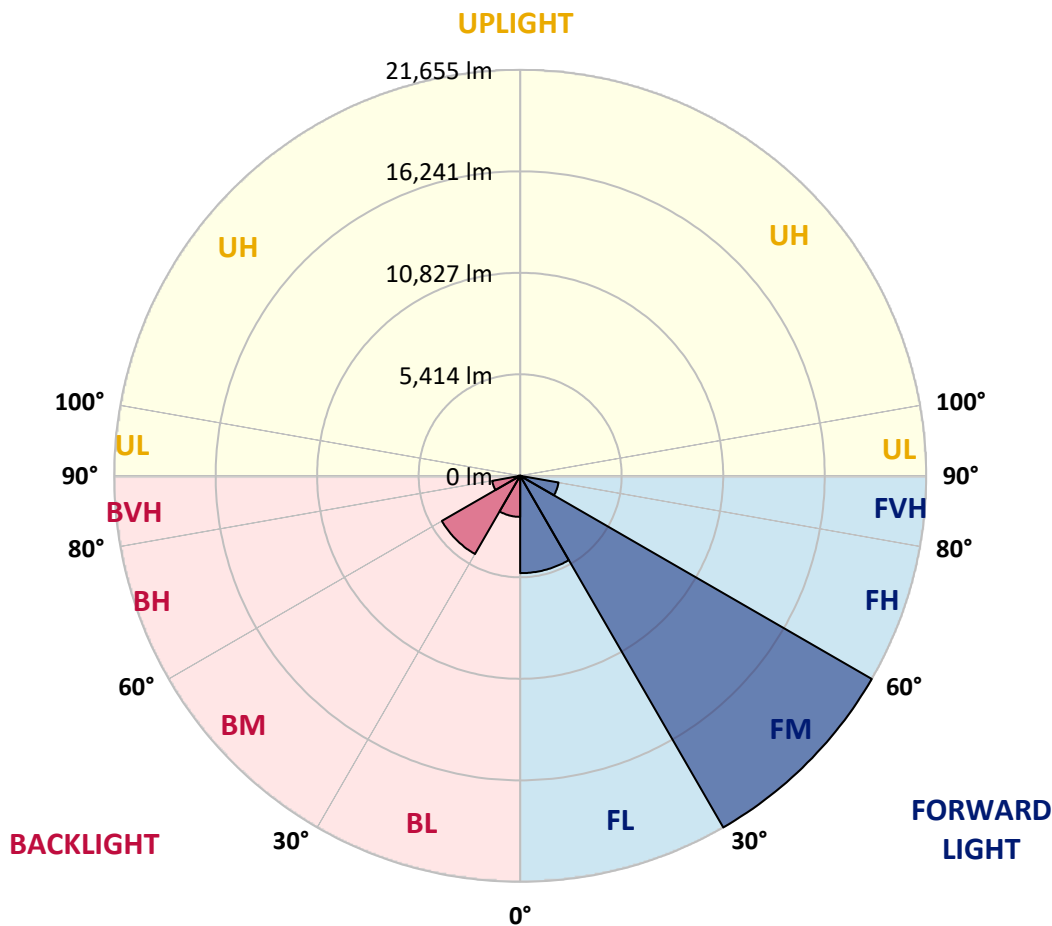
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5191.9	13.8			
FM (30°-60°)	21654.8	57.6			
FH (60°-80°)	2076.2	5.5			G2/5000
FVH (80°-90°)	72.7	0.2			G1/100
BL (0°-30°)	2190.6	5.8	B3/2500		
BM (30°-60°)	4819.0	12.8	B3/5000		
BH (60°-80°)	1518.2	4.0	B3/2500		G3/2500
BVH (80°-90°)	89.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1
2.5°	6734.7	6692.8	6567.2	6525.3	6376.3	6106.4	6013.3	5738.7	5622.4	5515.3	5389.6
5°	8517.3	8321.8	8307.9	8070.5	7726.1	7525.9	6930.2	6529.9	6162.2	5976.1	5631.7
7.5°	9652.9	9657.6	9657.6	9462.1	9187.5	8680.2	8145.0	7423.6	6869.7	6595.1	6008.7
10°	10732.7	10639.7	10588.5	10569.8	10383.7	9890.3	9317.8	8424.2	7665.6	7344.4	6292.6
12.5°	11496.0	11416.9	11533.3	11472.8	11337.8	11016.6	10476.8	9457.5	8508.0	8075.2	6748.7
15°	11859.1	11914.9	12008.0	12175.6	12115.1	11994.0	11398.3	10518.6	9415.6	8926.9	7153.6
17.5°	12417.6	12264.0	12375.7	12585.1	12752.7	12696.8	12357.1	11286.6	10313.9	9713.5	7698.2
20°	12808.5	12720.1	12776.0	13018.0	13143.6	13460.1	13283.3	12291.9	11174.9	10541.9	8340.4
22.5°	13925.6	13795.2	13613.7	13651.0	13697.5	13920.9	13962.8	13395.0	12175.6	11505.3	8950.2
25°	15303.2	15182.2	14968.1	14749.4	14614.4	14572.5	14716.8	14260.7	13134.3	12440.9	9606.4
27.5°	16820.5	16615.7	16480.8	16029.3	15666.3	15610.4	15540.6	15293.9	14270.0	13520.6	10346.4
30°	18295.9	18133.0	17951.5	17230.1	16853.1	16792.6	16448.2	16518.0	15503.4	14670.2	11184.2
32.5°	19412.9	19426.9	19012.7	18468.1	18114.4	17793.3	17667.6	17867.7	17085.8	16415.6	12119.7
35°	20315.9	20357.8	19962.2	19468.8	19087.1	19310.6	19254.7	19347.8	18975.4	18156.3	13208.8
37.5°	21195.5	20986.1	20562.6	20325.2	20125.1	20492.7	20967.5	21046.6	21116.4	20153.0	14474.8
40°	21339.8	21358.4	21111.8	21279.3	21028.0	21581.8	22684.9	22582.5	22866.4	22024.0	15847.8
42.5°	21135.0	21176.9	21274.7	21512.0	22117.1	22782.6	24420.9	24002.1	24346.5	23597.1	17183.6
45°	20799.9	20627.7	20748.7	21651.6	22698.9	24178.9	26008.0	25682.2	25570.5	24942.2	18775.3
47.5°	19198.9	19375.7	19752.7	20865.1	22438.2	24420.9	27134.4	27059.9	27395.0	26952.9	20222.8
50°	16978.8	16909.0	17635.0	18887.0	20916.3	23946.2	27073.9	27748.7	28470.2	27855.8	20869.7
52.5°	12715.5	13087.8	13711.5	15266.0	18160.9	21358.4	25752.1	26878.4	27464.8	27334.5	20348.5
55°	8037.9	8149.6	8526.6	10374.4	12980.8	17141.7	22075.2	24686.2	25733.4	26222.1	19869.1
57.5°	3904.9	3695.5	4156.3	5641.0	7498.0	11528.6	17025.3	21502.7	23778.7	24663.0	18826.5
60°	2038.6	2117.7	2299.2	2829.8	3877.0	5985.4	10611.7	14330.5	17807.2	19166.3	14270.0
62.5°	1689.5	1717.4	1838.4	2103.7	2578.5	3444.2	5417.6	6986.1	9080.5	10304.5	8117.0
65°	1433.5	1447.5	1577.8	1754.7	2057.2	2424.9	2787.9	2918.2	3532.6	3625.7	2885.6
67.5°	1196.1	1210.1	1349.7	1517.3	1712.8	1810.5	1903.6	1894.3	1964.1	1936.2	1931.5
70°	921.5	935.5	1079.8	1256.7	1354.4	1298.5	1587.1	1652.3	1680.2	1703.5	1740.7
72.5°	665.6	693.5	805.2	930.9	879.7	1010.0	1307.8	1405.6	1442.8	1456.8	1503.3
75°	484.0	493.4	521.3	484.0	558.5	702.8	921.5	1042.6	1089.1	1103.1	1172.9
77.5°	214.1	218.8	223.4	279.3	358.4	437.5	549.2	646.9	712.1	730.7	749.3
80°	111.7	116.4	144.3	190.8	256.0	321.1	400.3	456.1	498.0	502.7	521.3
82.5°	69.8	74.5	102.4	135.0	181.5	237.4	293.2	339.8	372.3	377.0	381.6
85°	32.6	41.9	60.5	83.8	121.0	153.6	158.2	135.0	144.3	148.9	139.6
87.5°	9.3	14.0	18.6	14.0	18.6	18.6	23.3	27.9	27.9	27.9	32.6
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°	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1	5236.1
2.5°	5319.8	5277.9	5115.0	5054.5	4896.3	4924.2	4840.4	4835.8	4817.2	4812.5	4807.9
5°	5450.1	5319.8	5124.3	4975.4	4887.0	4877.7	4817.2	4817.2	4835.8	4849.7	4817.2
7.5°	5664.2	5515.3	5184.9	5045.2	4966.1	4952.1	4910.3	4877.7	4919.6	4905.6	4868.4
10°	5910.9	5650.3	5301.2	5180.2	5049.9	5017.3	5017.3	5031.3	4961.4	4984.7	4947.5
12.5°	6185.5	5836.5	5450.1	5310.5	5156.9	5138.3	5129.0	5026.6	5063.8	5045.2	4952.1
15°	6534.6	6050.5	5641.0	5403.6	5273.3	5189.5	5068.5	5049.9	5026.6	4980.1	4938.2
17.5°	6911.6	6283.3	5729.4	5431.5	5236.1	5175.5	5082.5	4984.7	4914.9	4924.2	4891.6
20°	7232.7	6497.4	5762.0	5459.5	5208.1	5091.8	4947.5	4887.0	4812.5	4807.9	4803.2
22.5°	7614.4	6785.9	5808.5	5385.0	5124.3	5003.3	4905.6	4798.5	4747.4	4682.2	4714.8
25°	8070.5	6897.6	5817.8	5343.1	5063.8	4849.7	4798.5	4682.2	4663.6	4570.5	4589.1
27.5°	8401.0	6958.1	5743.4	5212.8	4924.2	4761.3	4668.2	4584.5	4551.9	4482.1	4463.4
30°	8843.1	7051.2	5585.1	5049.9	4784.6	4603.1	4547.2	4528.6	4435.5	4361.0	4351.7
32.5°	9345.8	7111.7	5482.7	4882.3	4640.3	4500.7	4528.6	4440.2	4323.8	4258.7	4240.0
35°	9746.0	7135.0	5226.7	4691.5	4542.6	4454.1	4421.6	4402.9	4235.4	4174.9	4128.3
37.5°	10355.7	7083.8	5012.6	4556.5	4435.5	4402.9	4375.0	4249.3	4058.5	3970.1	3904.9
40°	11067.8	7069.8	4738.0	4365.7	4333.1	4370.4	4286.6	4091.1	3825.8	3728.1	3681.5
42.5°	11752.0	7167.6	4565.8	4263.3	4221.4	4235.4	4119.0	3825.8	3695.5	3639.6	3565.2
45°	12897.0	7372.4	4281.9	4105.1	4086.4	4077.1	3937.5	3630.3	3555.9	3486.0	3472.1
47.5°	13930.2	7237.4	4100.4	3942.2	3960.8	3909.6	3611.7	3514.0	3430.2	3360.4	3337.1
50°	13990.7	6916.2	3844.4	3816.5	3821.2	3732.7	3448.8	3383.7	3276.6	3230.1	3197.5
52.5°	13674.2	6390.3	3607.1	3616.4	3630.3	3486.0	3248.7	3202.1	3113.7	3048.5	3029.9
55°	12785.3	5571.2	3374.3	3411.6	3448.8	3174.2	3099.7	2983.4	2913.6	2820.5	2825.1
57.5°	11263.3	4486.7	3048.5	3109.1	3188.2	2885.6	2829.8	2685.5	2583.1	2508.6	2499.3
60°	7549.2	3192.8	2559.8	2583.1	2760.0	2639.0	2634.3	2490.0	2350.4	2285.2	2248.0
62.5°	4454.1	2438.8	2210.8	2187.5	2182.9	2252.7	2369.0	2317.8	2136.3	2010.6	2047.9
65°	2331.8	2108.4	2057.2	1978.1	1931.5	1912.9	2001.3	2024.6	1903.6	1768.6	1759.3
67.5°	1959.4	1959.4	1917.6	1889.6	1824.5	1745.4	1689.5	1615.0	1596.4	1559.2	1512.6
70°	1782.6	1829.1	1815.2	1750.0	1694.2	1605.7	1461.4	1340.4	1224.1	1182.2	1210.1
72.5°	1554.5	1601.1	1601.1	1568.5	1494.0	1359.0	1219.4	1079.8	982.1	907.6	898.3
75°	1196.1	1219.4	1275.3	1238.0	1140.3	1056.5	912.2	768.0	674.9	605.1	591.1
77.5°	763.3	800.5	800.5	795.9	726.1	646.9	553.9	451.5	381.6	330.5	316.5
80°	507.3	530.6	549.2	530.6	484.0	423.5	353.7	283.9	232.7	190.8	181.5
82.5°	372.3	400.3	414.2	395.6	349.1	302.5	251.3	200.1	148.9	116.4	107.0
85°	144.3	148.9	167.6	200.1	195.5	190.8	153.6	111.7	83.8	60.5	55.9
87.5°	37.2	32.6	37.2	37.2	32.6	27.9	27.9	27.9	27.9	14.0	18.6
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)