

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: P647633

Luminaire Tested: **GALN-SA8D-835-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48504.5 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

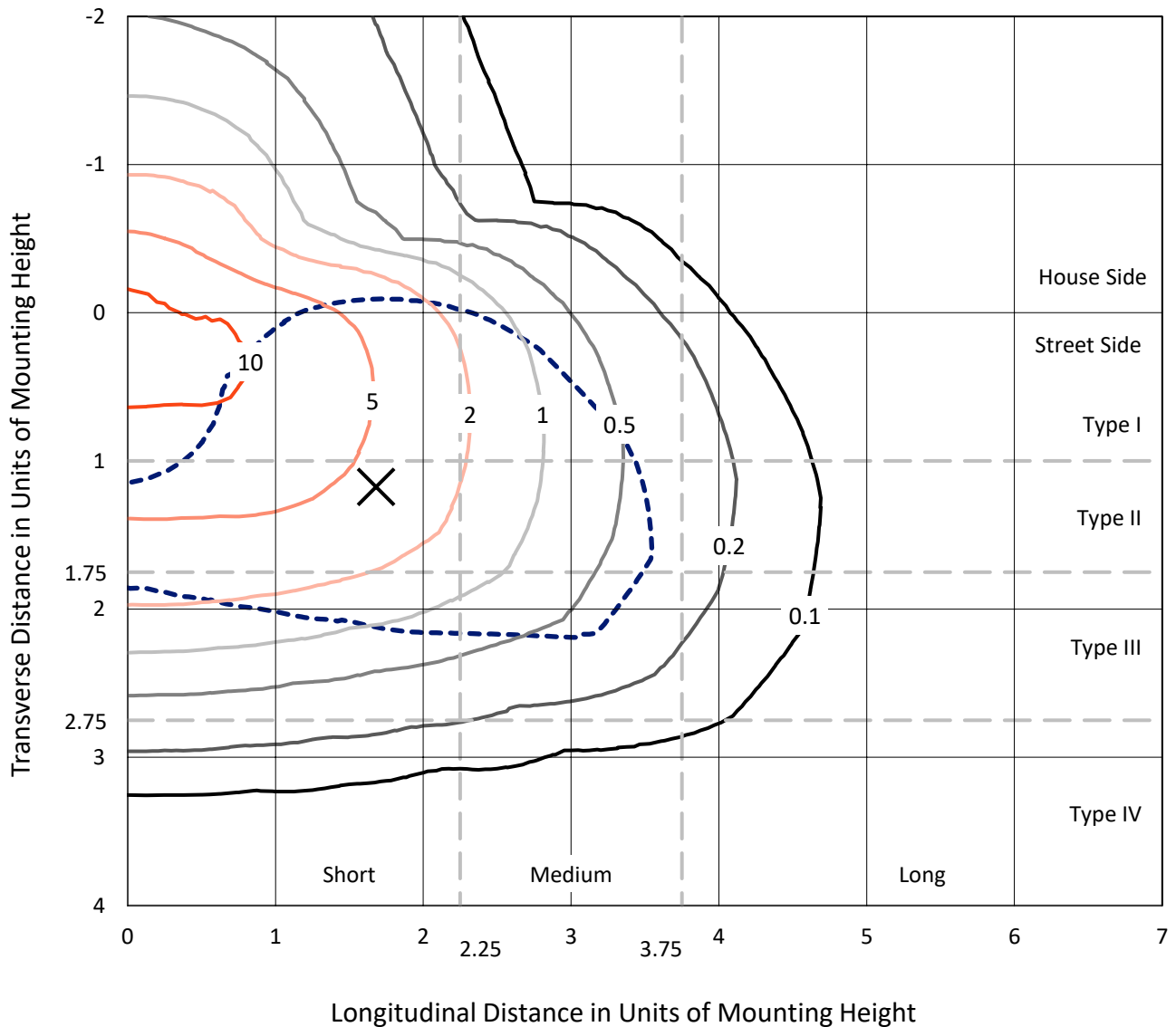
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

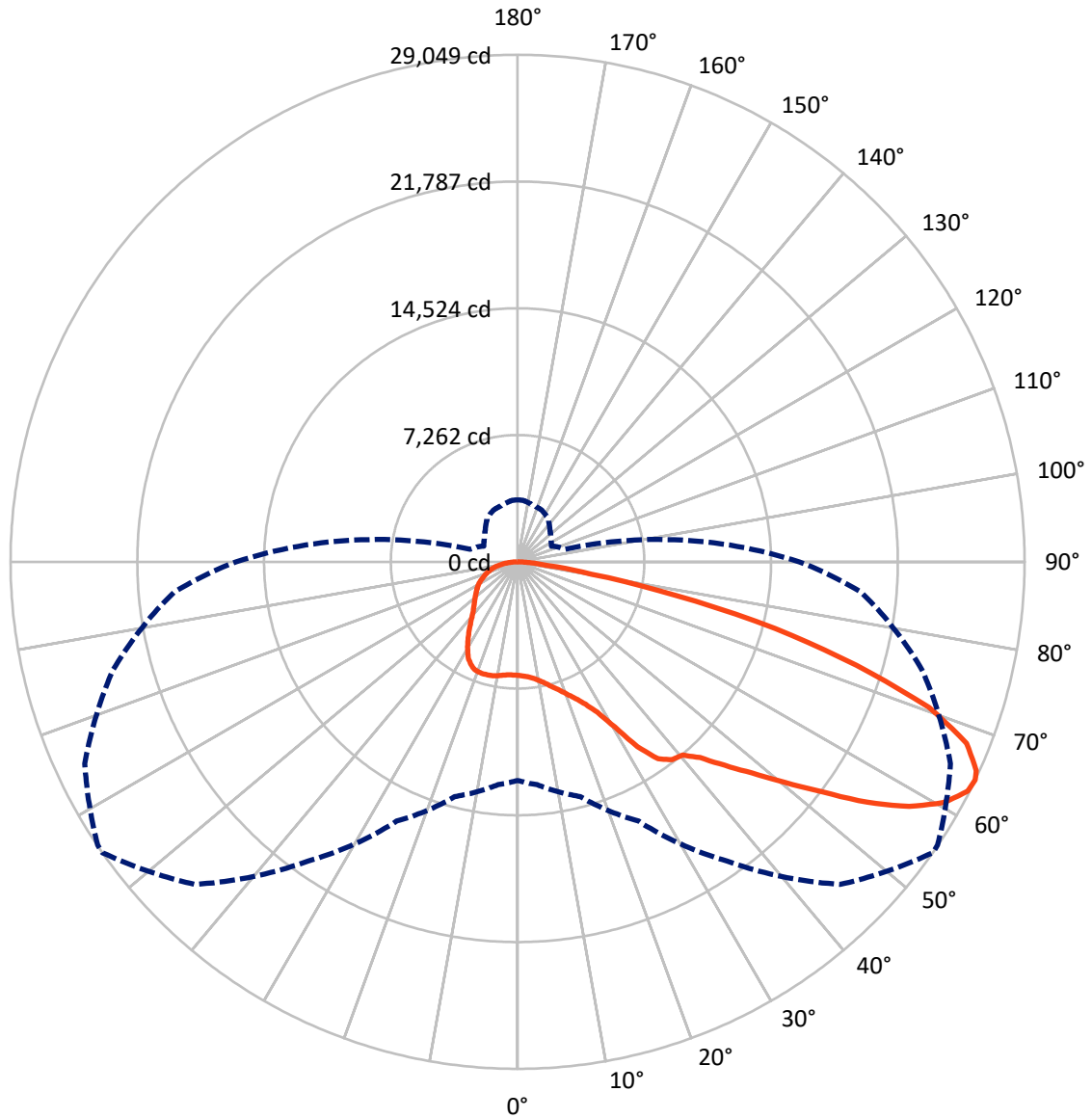
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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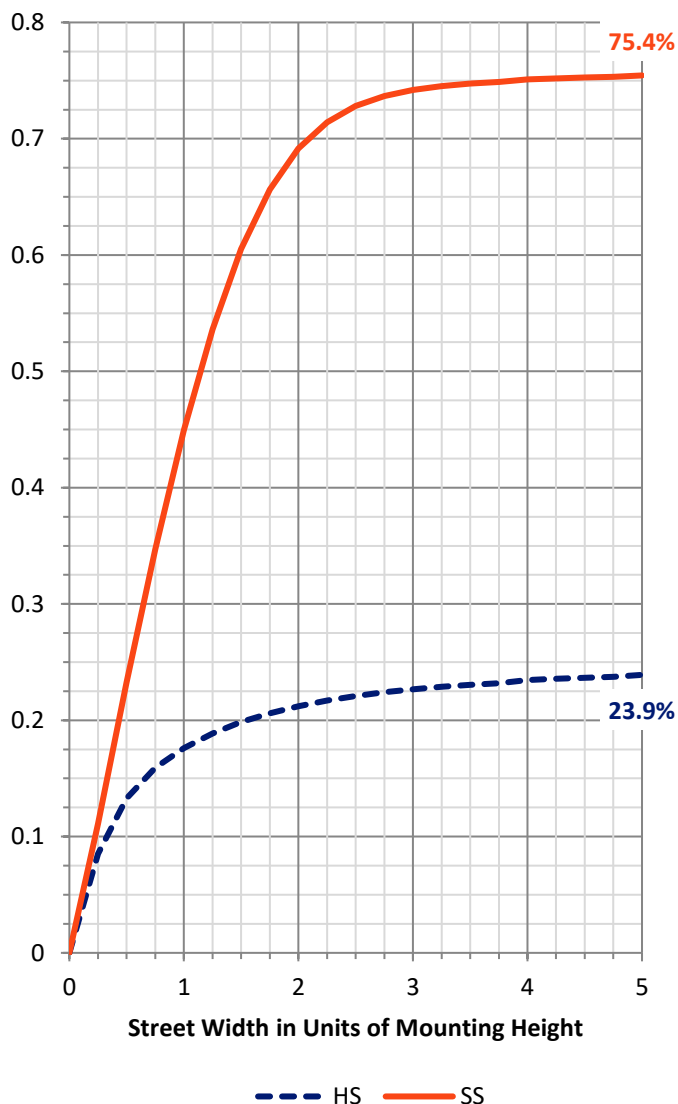
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11782.7	0.0	11782.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	36721.8	0.0	36721.8
	% Fixture	75.7	0.0	75.7
Total	Lumens	48504.5	0.0	48504.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.0	1.3
10°-20°	1997.4	4.1
20°-30°	3556.0	7.3
30°-40°	5471.2	11.3
40°-50°	7755.9	16.0
50°-60°	11226.5	23.1
60°-70°	11618.2	24.0
70°-80°	5440.8	11.2
80°-90°	805.5	1.7
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°	48504.5	100.0
0°-180°	48504.5	100.0

Coefficient of Utilization

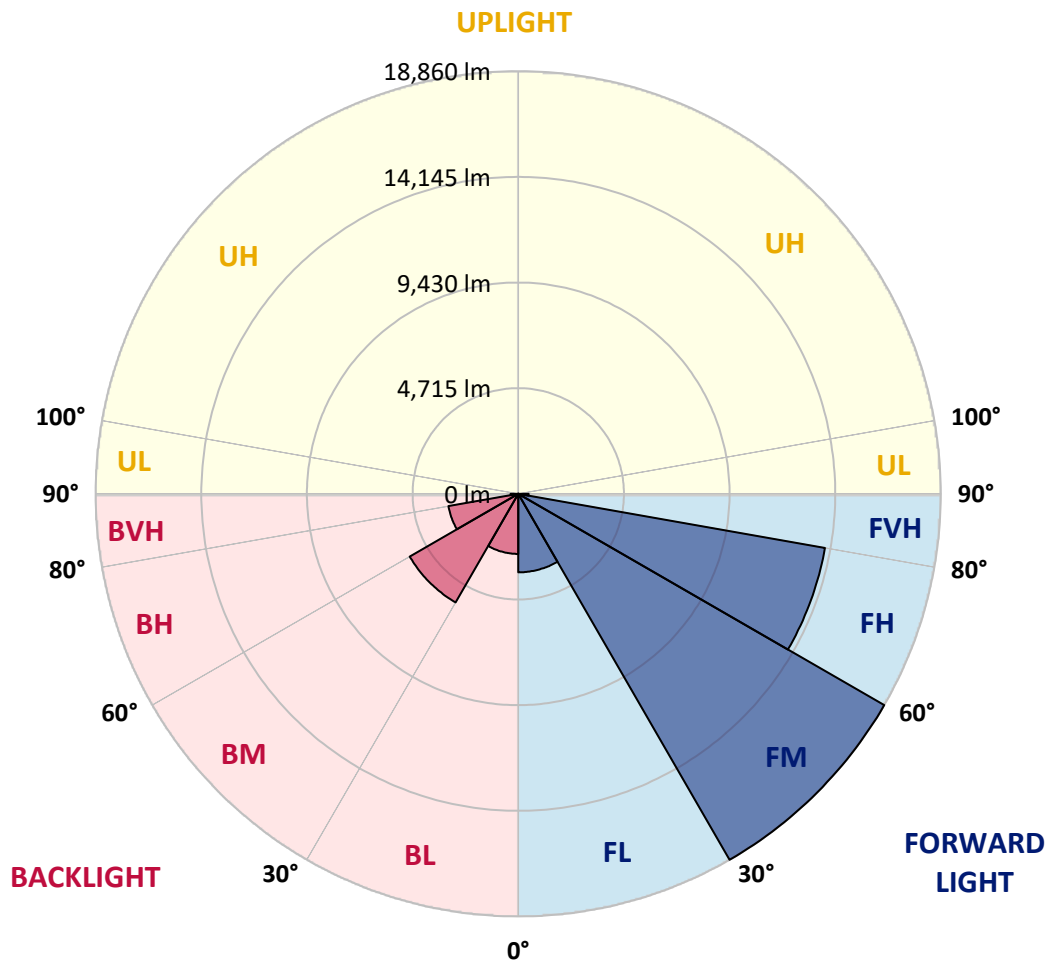


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3502.8	7.2			
FM (30°-60°)	18859.9	38.9			
FH (60°-80°)	13898.0	28.7			G5
FVH (80°-90°)	461.2	1.0			G3/500
BL (0°-30°)	2683.6	5.5	B4/5000		
BM (30°-60°)	5593.7	11.5	B4/8500		
BH (60°-80°)	3161.1	6.5	B4/5000		G4/5000
BVH (80°-90°)	344.3	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8
2.5°	6580.8	6578.1	6586.3	6578.1	6583.5	6564.6	6556.5	6561.9	6553.8	6540.3	6516.0
5°	6661.9	6659.3	6661.9	6651.1	6656.5	6645.7	6626.8	6632.2	6618.7	6588.9	6553.8
7.5°	6799.8	6789.0	6789.0	6786.3	6775.5	6759.2	6745.8	6740.4	6726.8	6689.0	6634.9
10°	6978.3	6978.3	6981.0	6959.4	6972.8	6943.2	6929.6	6926.9	6880.9	6832.3	6756.6
12.5°	7213.5	7227.0	7218.9	7208.1	7202.7	7191.9	7145.9	7156.7	7105.3	7021.6	6929.6
15°	7505.5	7527.1	7513.6	7508.2	7494.7	7454.2	7435.2	7427.1	7359.5	7237.8	7116.1
17.5°	7892.2	7865.1	7854.3	7840.8	7784.0	7754.3	7721.8	7716.4	7657.0	7513.6	7324.3
20°	8230.1	8267.9	8246.3	8232.8	8176.0	8119.2	8094.9	8086.8	8035.5	7878.6	7575.8
22.5°	8633.0	8641.0	8649.2	8616.8	8589.7	8546.4	8503.1	8489.7	8470.7	8308.5	7938.1
25°	9062.8	9095.3	9068.2	9035.8	9003.4	9000.7	9041.2	9035.8	9027.7	8870.9	8419.4
27.5°	9763.1	9792.8	9801.0	9765.8	9641.5	9652.3	9744.2	9774.0	9898.3	9638.7	9038.5
30°	10157.9	10187.6	10255.2	10387.7	10585.1	10758.1	10979.8	11047.3	11166.4	10677.0	9774.0
32.5°	10401.2	10412.0	10533.7	10779.7	11371.8	12018.0	12620.9	12645.3	12721.0	12034.2	10447.2
35°	10785.1	10793.3	10890.6	11161.0	11855.8	12931.9	13864.7	13894.4	13832.2	12456.0	10760.8
37.5°	11258.3	11279.9	11342.1	11566.5	12396.5	13697.0	14381.0	14359.4	13807.9	12791.2	11315.1
40°	11947.7	11947.7	11874.7	12177.5	12967.0	14135.0	14562.2	14524.3	14378.4	13761.9	12158.6
42.5°	12556.0	12545.2	12718.3	12923.7	13680.8	14810.9	15322.0	15384.1	15624.8	14981.3	13118.4
45°	13348.3	13396.9	13494.2	13867.3	14894.8	15965.4	16625.1	16684.6	17025.3	16416.9	14240.5
47.5°	14148.6	14164.8	14470.3	14967.7	16398.1	17530.9	18071.6	18169.0	18479.9	18096.0	15449.1
50°	14716.3	14870.4	15359.8	16143.9	17947.2	19439.7	19861.5	19977.8	20526.6	19923.7	16857.7
52.5°	15316.6	15467.9	16065.4	17260.5	19726.3	21391.8	21910.9	21989.3	22559.8	21773.0	18298.7
55°	15830.2	15970.9	16649.5	18250.1	21143.0	23384.5	24325.3	24233.4	24506.5	23197.9	19409.9
57.5°	15914.1	16027.6	16882.0	18882.7	22208.3	25093.2	26442.3	26496.4	26180.1	24263.1	20326.5
60°	15265.1	15497.7	16479.2	18815.2	22686.9	26282.8	28021.3	28059.1	27161.5	24809.3	20691.6
62.5°	14116.1	14091.7	15278.7	17728.2	22016.3	26553.2	28951.3	28910.8	27545.5	24547.0	20337.3
64°	12529.0	12821.0	13929.6	16392.7	20934.8	26136.8	29048.7	29027.1	27361.6	24000.9	19734.4
65°	11561.1	11544.9	12639.9	15300.3	19858.8	25509.5	28875.6	28846.0	26977.6	23511.5	19266.7
67.5°	8346.4	8384.2	9465.7	11807.1	16143.9	23057.2	27748.2	27637.4	25463.6	21889.2	17487.6
70°	5055.9	5077.6	5926.5	7832.7	11588.1	18639.4	25012.1	25017.5	23146.5	19466.7	14884.0
72.5°	2663.1	2719.9	3060.6	4447.6	7037.8	13077.9	20291.4	20772.6	19872.3	16614.3	11758.5
75°	1481.7	1489.7	1730.4	2192.7	3590.5	7318.9	15251.7	15389.6	15732.9	13372.5	8695.1
77.5°	1130.2	1146.4	1222.1	1416.8	1954.8	3393.1	9230.5	9922.6	11087.9	9427.9	4961.3
80°	916.6	932.8	997.7	1113.9	1300.5	1608.7	4288.1	4661.2	5934.7	4185.4	1935.9
82.5°	713.8	703.0	786.8	862.5	946.3	951.7	1760.1	1946.7	2417.1	1800.7	838.1
85°	529.9	529.9	597.5	581.3	611.1	556.9	776.0	857.1	967.9	765.1	389.3
87.5°	210.9	232.6	392.0	351.5	273.1	219.0	286.6	302.8	335.3	300.1	162.2
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°	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8	6507.8
2.5°	6518.6	6526.8	6507.8	6494.4	6488.9	6480.8	6472.7	6475.4	6486.2	6497.0	6494.4
5°	6551.1	6553.8	6521.4	6505.2	6494.4	6483.5	6483.5	6491.6	6513.2	6529.4	6529.4
7.5°	6632.2	6632.2	6586.3	6556.5	6540.3	6521.4	6516.0	6518.6	6534.8	6556.5	6559.2
10°	6759.2	6748.4	6689.0	6643.1	6613.3	6567.3	6526.8	6505.2	6513.2	6526.8	6526.8
12.5°	6913.4	6883.7	6808.0	6745.8	6672.8	6586.3	6502.4	6459.2	6456.5	6470.0	6464.6
15°	7078.3	7045.9	6940.4	6826.9	6699.8	6572.7	6472.7	6410.5	6361.9	6348.3	6378.1
17.5°	7270.3	7202.7	7056.7	6899.9	6710.6	6545.7	6388.9	6261.8	6175.3	6150.9	6159.1
20°	7502.8	7413.6	7216.2	6970.2	6702.5	6448.4	6205.0	6034.7	5894.1	5850.8	5856.2
22.5°	7824.5	7670.4	7381.1	7005.3	6634.9	6264.5	5926.5	5704.9	5534.5	5466.9	5507.5
25°	8189.6	8021.9	7537.9	6997.2	6459.2	5969.8	5596.7	5307.4	5153.3	5053.2	5074.9
27.5°	8692.5	8395.0	7705.6	6924.2	6207.7	5610.2	5177.6	4904.6	4763.9	4712.6	4736.9
30°	9335.9	8879.0	7886.8	6726.8	5810.3	5156.0	4755.9	4577.4	4493.6	4428.6	4450.3
32.5°	9801.0	9219.7	7927.3	6394.3	5380.4	4742.3	4469.2	4336.7	4244.8	4182.6	4196.2
35°	10133.5	9509.0	7908.4	5986.0	4931.6	4401.6	4242.1	4134.0	3985.3	3850.1	3825.7
37.5°	10579.7	9871.3	7770.5	5539.9	4488.2	4171.8	4058.3	3858.2	3644.6	3463.4	3455.4
40°	11263.7	10295.7	7475.8	5015.4	4109.7	4001.5	3863.6	3604.1	3374.3	3228.2	3217.4
42.5°	11969.3	10687.8	7075.7	4463.8	3798.7	3823.1	3655.4	3398.5	3258.0	3163.3	3152.5
45°	12831.8	11112.3	6643.1	3985.3	3568.9	3655.4	3474.2	3325.6	3241.8	3179.6	3163.3
47.5°	13764.6	11547.5	6156.3	3555.4	3374.3	3501.3	3398.5	3331.0	3285.0	3241.8	3222.8
50°	14770.4	12034.2	5699.5	3209.3	3198.5	3341.8	3390.5	3366.1	3339.1	3325.6	3309.3
52.5°	15873.5	12531.7	5315.5	2966.0	3044.4	3228.2	3393.1	3412.1	3412.1	3404.0	3393.1
55°	16619.7	12877.8	4926.2	2768.6	2887.5	3136.3	3387.7	3460.8	3487.8	3477.0	3466.2
57.5°	17171.3	13067.0	4436.8	2598.3	2755.1	3047.1	3358.1	3466.2	3493.2	3506.7	3501.3
60°	17284.9	12891.3	3796.0	2419.9	2611.8	2917.3	3249.8	3385.1	3420.2	3504.0	3512.1
62.5°	16773.8	12350.6	3157.9	2244.1	2436.1	2719.9	3103.9	3293.1	3363.5	3493.2	3506.7
64°	16146.6	11744.9	2803.8	2133.2	2322.5	2609.1	3030.8	3268.8	3360.7	3533.8	3544.6
65°	15686.9	11304.2	2582.0	2063.0	2249.5	2536.1	2990.3	3276.9	3385.1	3595.9	3612.1
67.5°	13994.4	9787.4	2135.9	1898.0	2076.4	2411.7	2998.4	3344.5	3379.7	3620.3	3617.5
70°	11580.0	7792.1	1789.9	1746.6	1908.8	2311.7	2966.0	3236.4	3239.0	3398.5	3360.7
72.5°	8670.8	5758.9	1551.9	1589.8	1722.3	2073.8	2801.0	3090.3	3044.4	3066.0	3028.2
75°	5956.3	3809.5	1335.6	1422.2	1527.6	1833.1	2568.6	2806.4	2733.5	2706.4	2679.3
77.5°	3179.6	2106.2	1111.2	1257.3	1327.5	1584.4	2241.4	2471.2	2395.5	2290.0	2254.9
80°	1286.9	992.3	894.9	1040.9	1081.5	1276.1	1865.6	2008.9	1952.1	1768.2	1708.7
82.5°	646.2	594.8	703.0	819.3	821.9	911.2	1387.0	1522.2	1395.1	1170.7	1119.4
85°	337.9	348.7	484.0	575.9	508.3	492.0	832.7	922.0	846.3	735.4	662.4
87.5°	121.7	140.6	254.2	251.4	178.4	94.7	183.8	89.2	48.7	29.8	37.8
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)