

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: P459300

Luminaire Tested: **GALN-SA7D-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50685 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

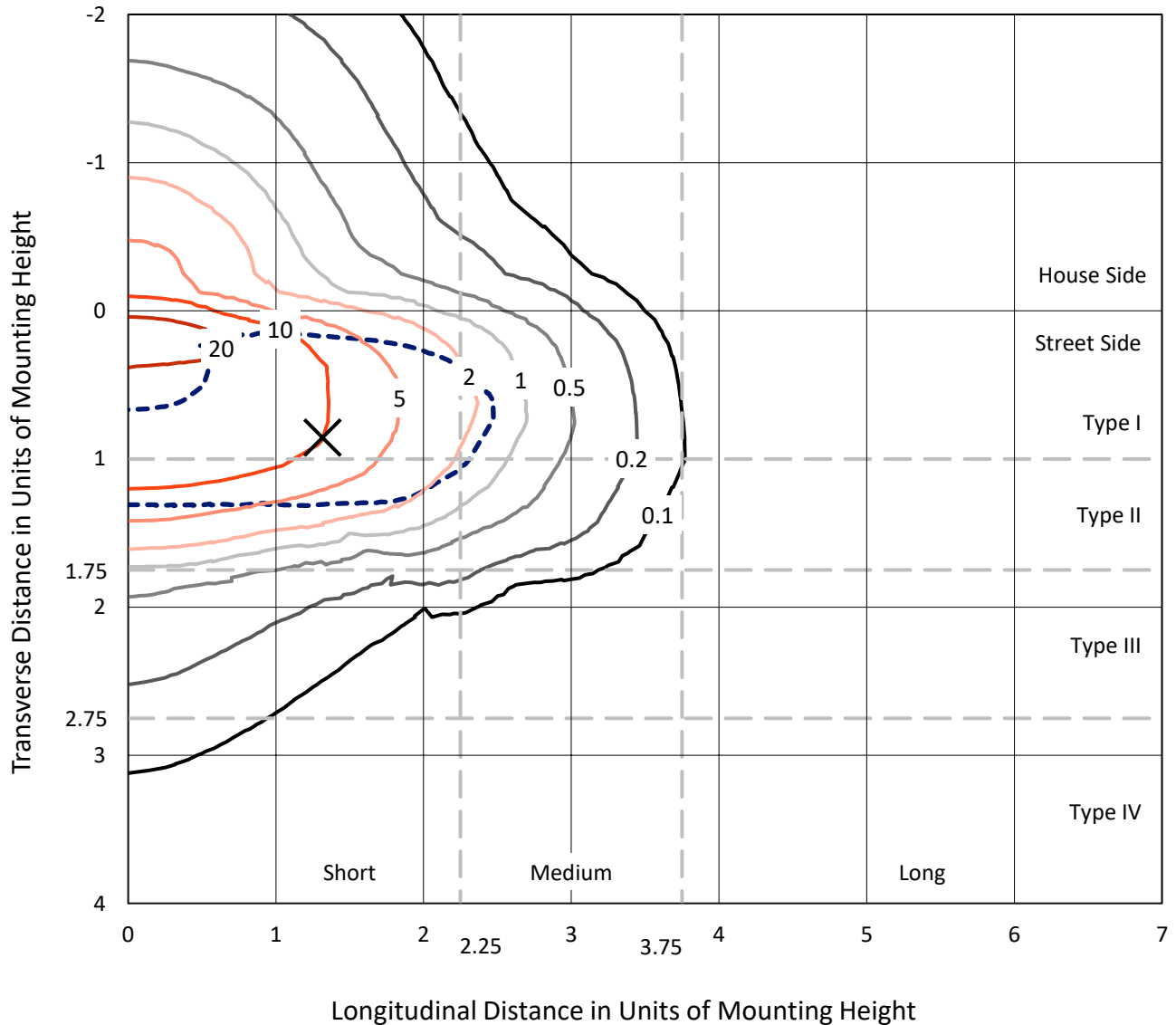
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

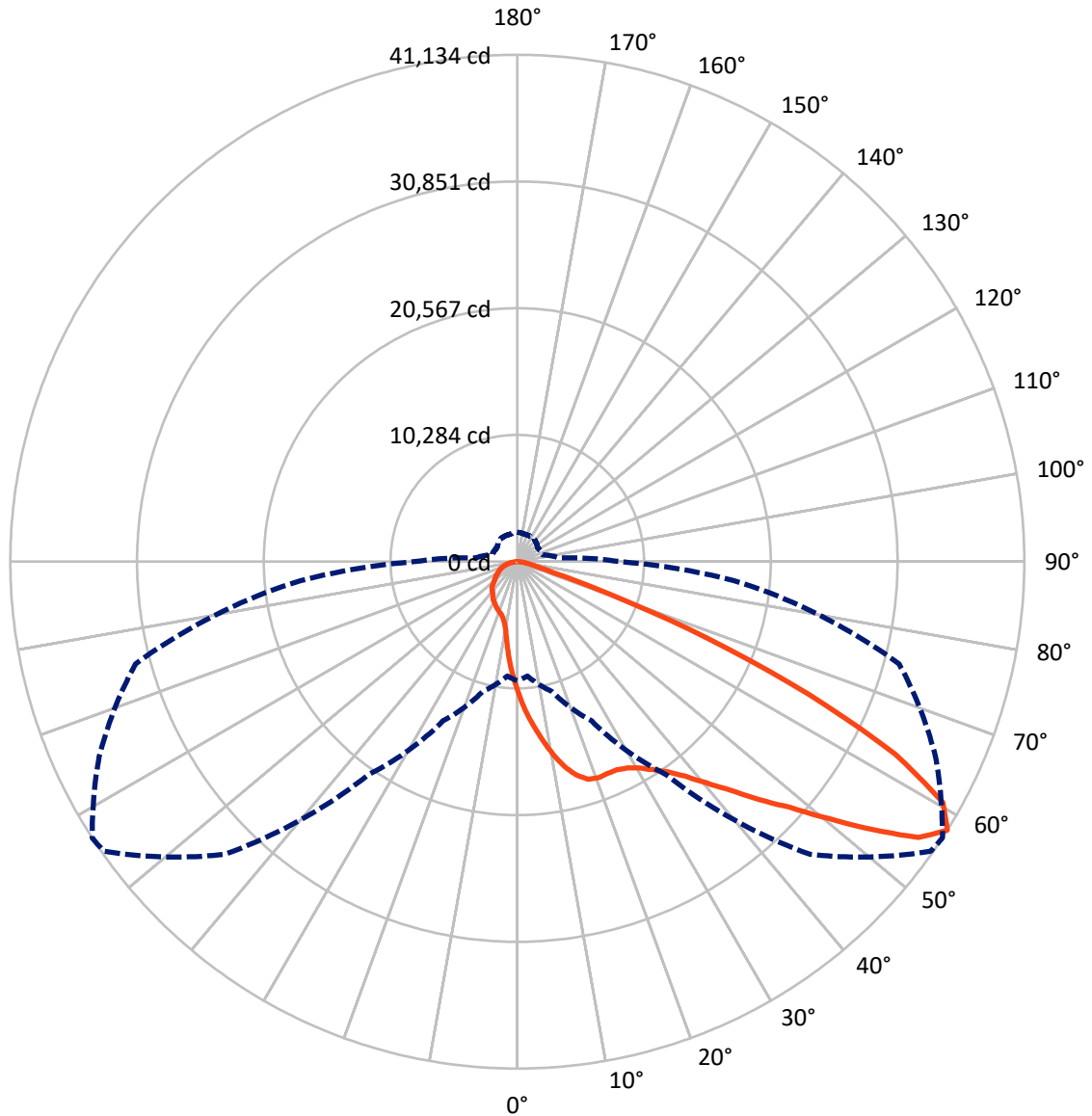
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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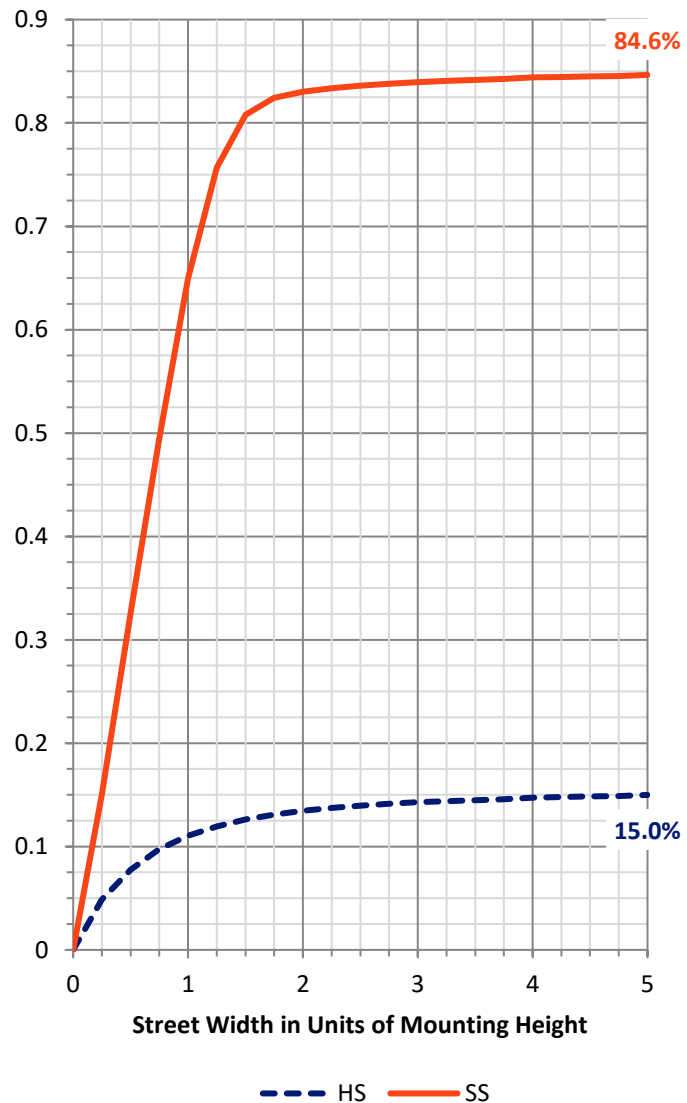
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7707.8	0.0	7707.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	42977.2	0.0	42977.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	50685.0	0.0	50685.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1023.4	2.0
10°-20°	3016.1	6.0
20°-30°	5008.2	9.9
30°-40°	7543.8	14.9
40°-50°	11326.3	22.3
50°-60°	12695.4	25.0
60°-70°	7429.9	14.7
70°-80°	2197.7	4.3
80°-90°	444.2	0.9
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°	50685.0	100.0
0°-180°	50685.0	100.0



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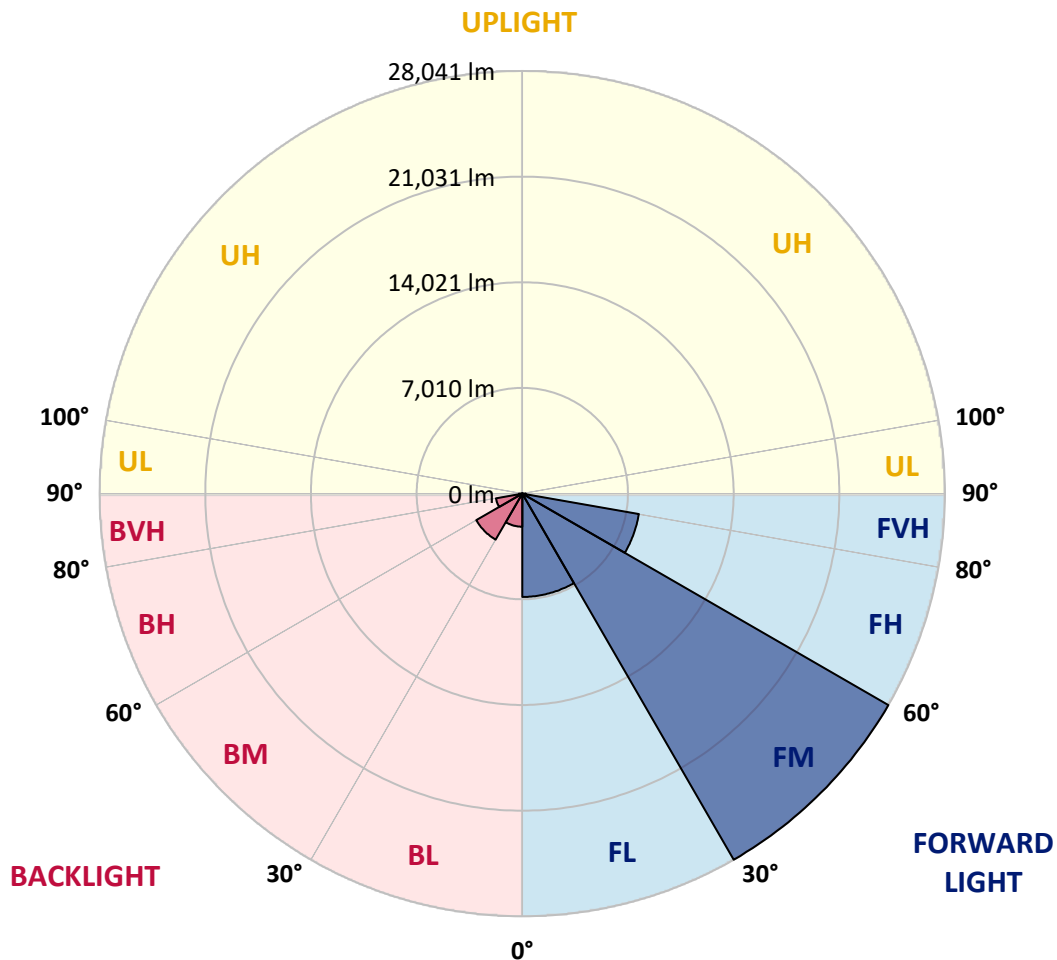
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6851.4	13.5			
FM	(30°-60°)	28041.2	55.3			
FH	(60°-80°)	7854.2	15.5			G4/12000
FVH	(80°-90°)	230.5	0.5			G3/500
BL	(0°-30°)	2196.2	4.3	B3/2500		
BM	(30°-60°)	3524.3	7.0	B3/5000		
BH	(60°-80°)	1773.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	213.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3
2.5°	13231.4	13087.1	12973.3	12873.4	12743.0	12390.7	12038.3	12032.8	11752.6	11319.8	10875.8
5°	15387.1	15192.9	15217.9	14907.1	14596.4	14085.9	13339.6	13300.7	12704.2	11894.1	11070.1
7.5°	16791.0	16793.7	16716.1	16538.5	16202.8	15622.9	14776.7	14585.3	13755.7	12526.6	11292.0
10°	16718.8	16793.7	16924.1	17076.7	17179.4	16893.6	16122.3	15889.3	14810.0	13292.4	11538.9
12.5°	15758.9	15875.4	16061.3	16444.2	17062.9	17534.5	17271.0	17082.3	16030.8	14055.4	11810.8
15°	15159.6	15229.0	15331.6	15589.6	16255.5	17384.7	18067.2	17967.3	17182.2	14918.2	12116.0
17.5°	14976.5	15045.8	15079.1	15237.3	15711.7	16868.7	18380.7	18558.3	18203.2	15711.7	12424.0
20°	15159.6	15192.9	15192.9	15287.2	15659.0	16566.2	18366.9	18724.8	19041.0	16663.3	12712.5
22.5°	15639.6	15653.4	15634.0	15667.3	15944.8	16649.5	18236.5	18680.4	19718.0	17470.7	12937.3
25°	16419.2	16441.4	16313.8	16236.1	16438.6	17015.7	18308.6	18716.4	20247.9	18242.0	13087.1
27.5°	17304.2	17332.0	17176.6	16996.3	17090.6	17467.9	18591.6	18957.8	20644.7	19002.2	13181.4
30°	18389.1	18400.2	18139.4	17922.9	17861.9	18142.1	19074.3	19415.6	21138.5	19898.4	13322.9
32.5°	19498.8	19582.1	19246.4	18941.2	18838.5	18924.5	19787.4	20117.5	21726.7	20861.1	13550.4
35°	21008.1	21022.0	20619.7	20247.9	19909.5	20020.4	20700.2	20938.8	22539.6	21973.6	13872.2
37.5°	22892.0	23019.6	22464.7	21771.1	21354.9	21194.0	21804.4	22065.2	23679.9	23338.7	14357.8
40°	24983.9	25031.1	24556.7	24123.8	23363.6	22897.5	23319.3	23602.2	25086.6	24967.3	14921.0
42.5°	26299.0	26401.7	26437.7	26393.3	25821.8	25039.4	25200.3	25333.5	26751.2	26496.0	15498.1
45°	26742.9	26895.5	27411.6	28504.7	28565.7	27794.4	27419.9	27547.5	28565.7	28038.6	16050.2
47.5°	26007.7	26268.5	27220.1	29461.9	31140.4	31198.7	30069.5	29789.3	30219.3	29317.6	16449.7
50°	24107.2	24162.7	25619.3	28865.4	32347.3	34453.1	33285.1	32763.5	31789.6	30263.7	16724.4
52.5°	21166.3	21230.1	22450.8	26093.7	31603.8	36728.2	37047.2	36115.0	33385.0	30998.9	16904.7
55°	15711.7	16080.7	17423.5	20944.3	28080.2	36514.5	40038.1	39508.2	35313.2	31581.6	17187.7
57.5°	9660.6	9322.2	10914.7	14249.6	21119.1	33579.2	40962.0	41134.0	37435.7	32069.9	17662.1
60°	4444.7	4511.3	5168.8	7349.5	12873.4	26268.5	38581.5	39669.1	38609.2	32053.2	17781.4
62.5°	3063.0	3002.0	2835.5	3226.7	5870.7	16613.4	32588.7	34430.9	36256.5	31057.2	17307.0
65°	2738.4	2677.3	2355.5	2247.3	2696.8	7241.3	23691.0	26016.0	30527.3	28543.5	16125.1
67.5°	2558.0	2474.8	2141.9	1931.0	1925.5	2882.7	13969.4	16768.8	22642.3	24132.2	13972.1
70°	2369.4	2302.8	1972.6	1739.6	1639.7	1811.7	6139.9	8037.6	14701.8	17390.3	10884.2
72.5°	2180.7	2103.0	1806.2	1556.5	1426.1	1356.7	2352.7	3060.2	8306.7	10426.4	6672.6
75°	1906.0	1867.2	1614.7	1409.4	1267.9	1095.9	1492.7	1703.5	3973.0	4788.7	3348.8
77.5°	1667.4	1625.8	1434.4	1231.9	1129.2	890.6	1059.8	1156.9	1675.8	1942.1	1512.1
80°	1220.8	1262.4	1209.7	1087.6	1007.1	699.2	713.0	793.5	996.0	1101.5	923.9
82.5°	774.1	851.8	932.2	837.9	763.0	552.1	493.9	524.4	679.7	721.4	410.6
85°	324.6	330.2	541.0	510.5	435.6	327.4	296.9	313.5	363.5	380.1	191.4
87.5°	124.9	122.1	191.4	177.6	135.9	94.3	94.3	105.4	144.3	133.2	61.0
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°	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3	10648.3
2.5°	10684.4	10487.4	10096.2	9610.7	9255.6	8856.0	8503.7	8251.2	8156.9	8112.5	8029.3
5°	10676.1	10287.7	9477.5	8628.5	7946.0	7246.9	6655.9	6273.0	6239.7	5984.5	5959.5
7.5°	10678.9	10085.1	8795.0	7546.5	6506.1	5790.3	5302.0	5174.3	5021.8	4982.9	5002.3
10°	10687.2	9827.1	8062.6	6475.6	5468.4	4999.6	4816.4	4766.5	4772.1	4788.7	4791.5
12.5°	10698.3	9577.4	7302.4	5662.7	4885.8	4691.6	4672.2	4716.6	4763.7	4799.8	4808.1
15°	10712.2	9291.6	6561.6	5007.9	4594.5	4577.8	4641.7	4716.6	4783.2	4835.9	4844.2
17.5°	10695.5	8958.7	5940.1	4605.6	4433.6	4514.0	4619.5	4713.8	4774.8	4824.8	4830.3
20°	10656.7	8586.9	5340.8	4322.6	4333.7	4464.1	4577.8	4666.6	4733.2	4758.2	4777.6
22.5°	10506.8	8143.0	4819.2	4103.4	4214.4	4394.7	4530.7	4583.4	4508.5	4455.8	4469.6
25°	10251.6	7565.9	4333.7	3925.8	4106.2	4297.6	4436.3	4308.7	4247.7	4225.5	4236.6
27.5°	9932.5	6933.4	3967.5	3740.0	3967.5	4189.4	4150.6	4128.4	4100.6	4064.6	4072.9
30°	9588.5	6314.6	3656.7	3595.7	3817.6	3945.3	3961.9	3998.0	3967.5	3912.0	3934.2
32.5°	9269.4	5732.0	3420.9	3473.6	3712.2	3692.8	3817.6	3859.3	3717.8	3531.9	3540.2
35°	8997.5	5191.0	3243.3	3354.3	3531.9	3540.2	3665.0	3520.8	3368.2	3279.4	3284.9
37.5°	8792.2	4769.3	3126.8	3251.7	3301.6	3407.0	3340.4	3265.5	3246.1	3185.1	3187.8
40°	8670.2	4400.3	3051.9	3171.2	3162.9	3235.0	3021.4	3096.3	3124.0	3104.6	3107.4
42.5°	8548.1	4139.5	2974.2	3060.2	3057.4	2915.9	2868.8	2932.6	3004.7	3013.1	3007.5
45°	8451.0	3936.9	2893.8	2891.0	2946.5	2724.5	2710.6	2749.5	2852.1	2902.1	2899.3
47.5°	8342.8	3767.7	2771.7	2694.0	2710.6	2605.2	2583.0	2599.7	2724.5	2805.0	2827.2
50°	8206.8	3598.5	2619.1	2513.7	2444.3	2494.2	2499.8	2502.6	2627.4	2719.0	2738.4
52.5°	8098.6	3470.8	2444.3	2366.6	2283.4	2394.4	2436.0	2441.5	2516.4	2591.3	2605.2
55°	8162.4	3398.7	2272.3	2216.8	2141.9	2291.7	2372.2	2383.3	2399.9	2455.4	2463.7
57.5°	8353.9	3415.3	2133.6	2061.4	2005.9	2169.6	2305.6	2313.9	2302.8	2369.4	2380.5
60°	8412.1	3407.0	2030.9	1889.4	1856.1	2039.2	2208.5	2225.1	2222.3	2319.4	2338.9
62.5°	8168.0	3301.6	1928.2	1745.1	1722.9	1906.0	2072.5	2139.1	2153.0	2291.7	2316.7
65°	7593.7	3085.2	1792.3	1592.5	1592.5	1764.6	1942.1	2033.7	2072.5	2258.4	2286.1
67.5°	6836.2	2829.9	1653.6	1462.1	1456.6	1628.6	1803.4	1897.7	1958.8	2211.2	2227.9
70°	5673.7	2485.9	1481.6	1320.6	1320.6	1476.0	1634.2	1747.9	1836.7	2122.5	2122.5
72.5°	3887.0	2067.0	1273.5	1159.7	1162.5	1306.8	1467.7	1595.3	1700.7	1944.9	1950.4
75°	2458.2	1614.7	1046.0	987.7	998.8	1134.7	1301.2	1434.4	1645.2	1922.7	1931.0
77.5°	1306.8	1134.7	832.3	818.5	832.3	957.2	1143.1	1326.2	1650.8	1667.4	1639.7
80°	846.2	804.6	657.5	629.8	635.3	771.3	1018.2	1259.6	1326.2	1342.8	1281.8
82.5°	460.6	510.5	466.1	438.4	438.4	602.1	868.4	1001.6	951.6	790.7	754.7
85°	197.0	238.6	241.4	210.9	202.5	371.8	582.6	546.6	507.7	485.5	480.0
87.5°	55.5	77.7	77.7	58.3	44.4	102.7	116.5	33.3	0.0	2.8	5.5
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)