

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: P457465

Luminaire Tested: **GALN-SA8D-740-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44982 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

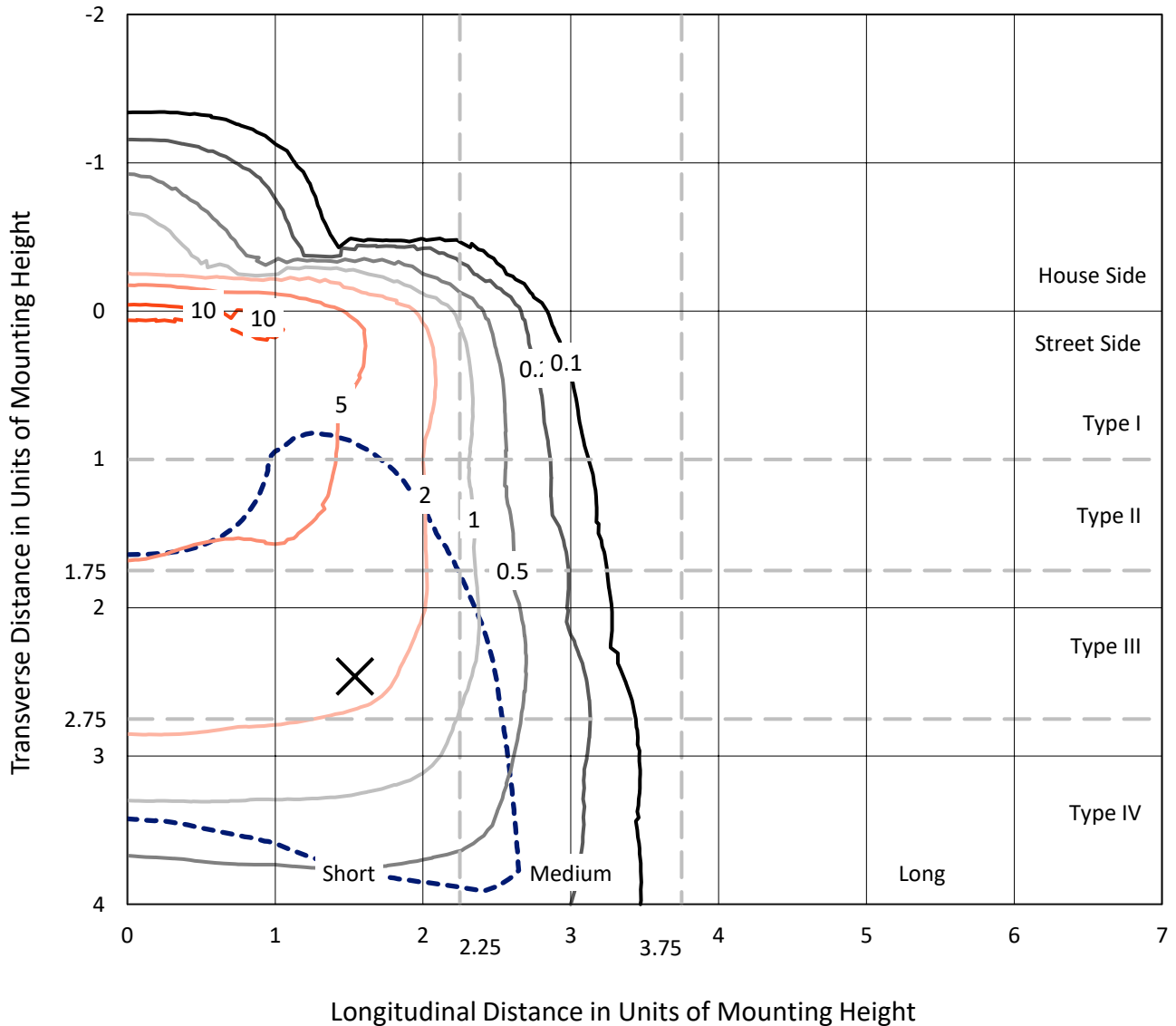
Input Watts (W): 493
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

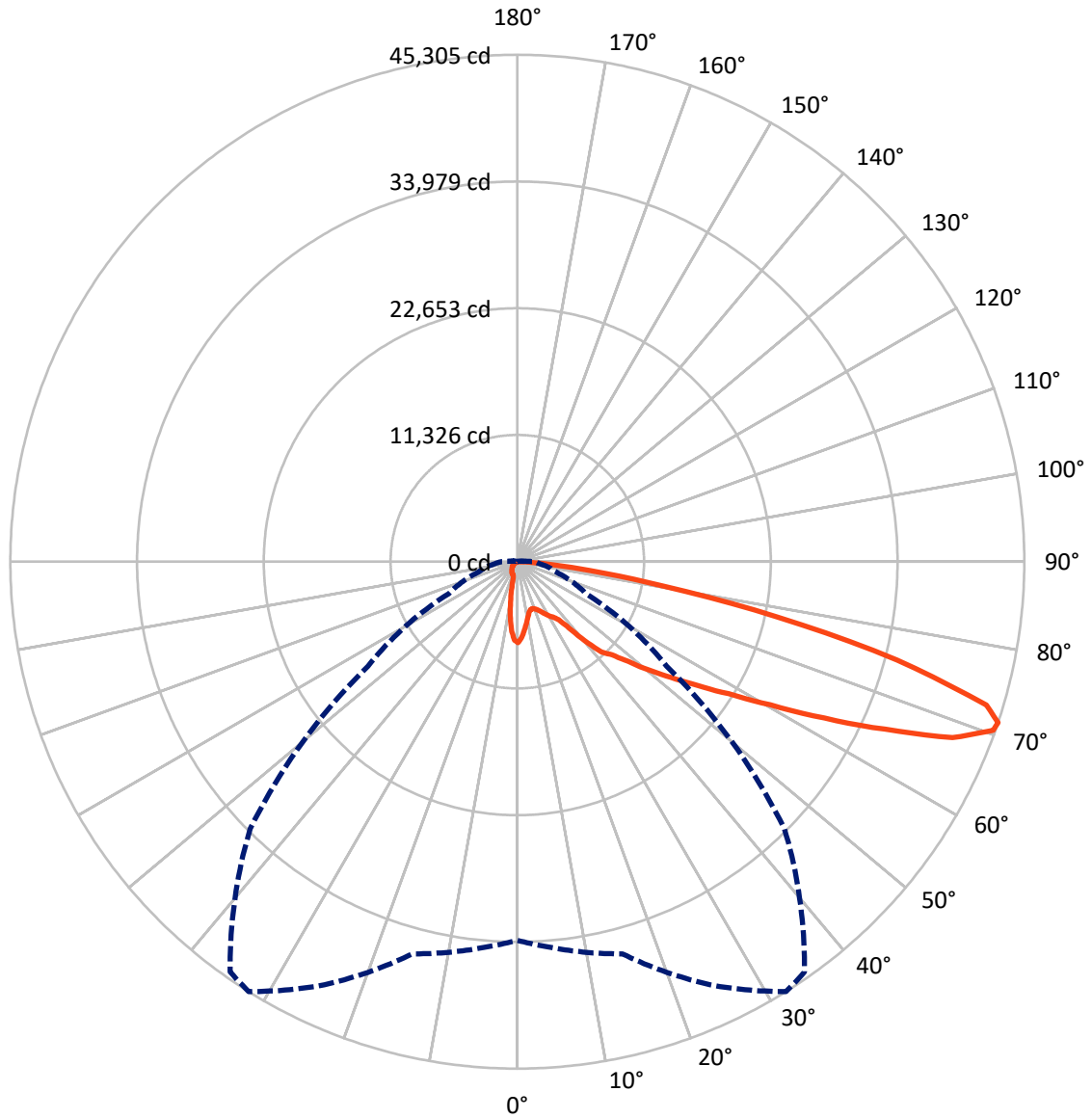
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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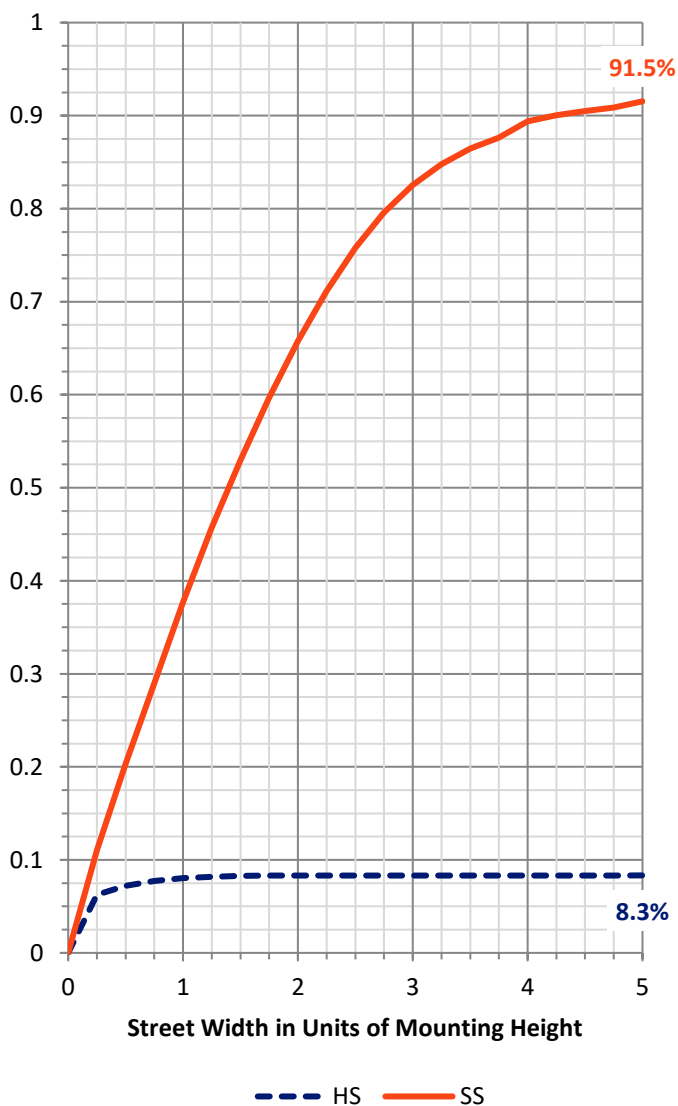
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3767.7	0.0	3767.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	41214.3	0.0	41214.3
	% Fixture	91.6	0.0	91.6
Total	Lumens	44982.0	0.0	44982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.2	1.3
10°-20°	1276.6	2.8
20°-30°	1986.0	4.4
30°-40°	3308.6	7.4
40°-50°	6154.6	13.7
50°-60°	9881.5	22.0
60°-70°	13291.1	29.5
70°-80°	7885.8	17.5
80°-90°	609.5	1.4
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°	44982.0	100.0
0°-180°	44982.0	100.0

Coefficient of Utilization

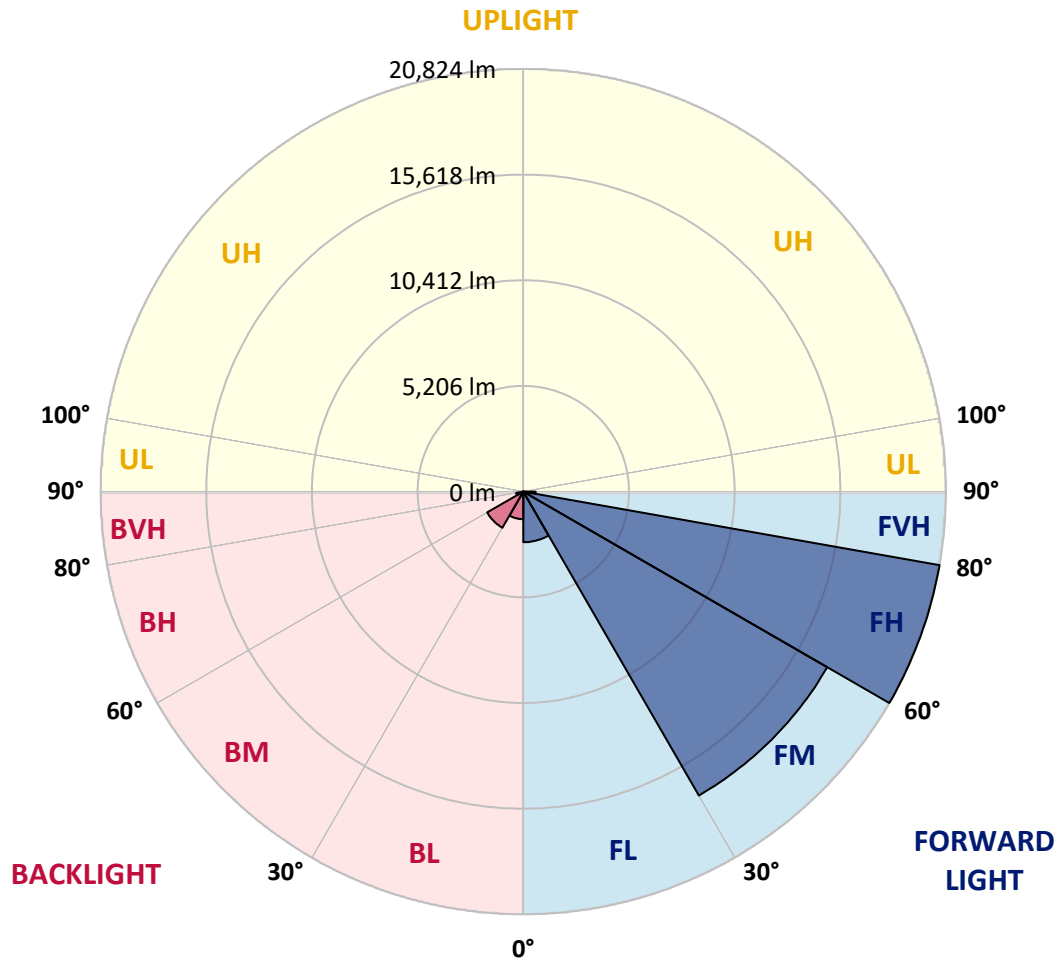


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2493.2	5.5			
FM (30°-60°)	17289.4	38.4			
FH (60°-80°)	20824.5	46.3			G5
FVH (80°-90°)	607.2	1.3			G4/750
BL (0°-30°)	1357.6	3.0	B3/2500		
BM (30°-60°)	2055.4	4.6	B2/2500		
BH (60°-80°)	352.4	0.8	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8
2.5°	6709.0	6778.0	6767.7	6791.8	6850.5	6874.7	6940.3	7012.8	7113.0	7182.0	7226.9
5°	6008.0	6059.8	6066.7	6187.6	6246.3	6311.9	6505.2	6715.9	6950.7	7137.1	7261.4
7.5°	5258.8	5286.4	5341.6	5500.5	5648.9	5714.5	6008.0	6374.0	6743.5	7092.2	7316.7
10°	4640.7	4671.8	4771.9	4941.1	5079.2	5165.5	5573.0	6032.2	6550.1	7068.1	7396.1
12.5°	4288.5	4305.8	4343.7	4495.7	4671.8	4765.0	5203.5	5728.3	6394.8	7078.4	7530.8
15°	4264.3	4257.4	4212.5	4274.7	4433.5	4530.2	4958.4	5521.2	6256.6	7113.0	7689.6
17.5°	4392.1	4374.8	4267.8	4267.8	4399.0	4478.4	4854.8	5410.7	6187.6	7192.4	7914.0
20°	4588.9	4561.3	4385.2	4371.4	4499.1	4582.0	4916.9	5417.6	6201.4	7340.8	8214.4
22.5°	4837.5	4806.4	4540.6	4547.5	4685.6	4768.4	5096.5	5541.9	6287.7	7523.9	8535.5
25°	5162.1	5127.5	4813.3	4799.5	4944.5	5017.1	5362.3	5762.9	6408.6	7751.7	8956.8
27.5°	5593.7	5521.2	5144.8	5124.1	5279.5	5372.7	5683.5	6059.8	6622.6	8066.0	9523.1
30°	5949.3	5869.9	5510.8	5455.6	5621.3	5693.8	6014.9	6460.4	7043.9	8615.0	10306.9
32.5°	6415.5	6298.1	5876.8	5731.8	5907.9	6001.1	6494.9	7206.2	7668.9	9195.1	11239.2
35°	7465.2	7392.6	6878.2	6370.6	6360.2	6477.6	7202.7	7958.9	8311.1	10099.7	12509.8
37.5°	8967.2	8915.4	8369.8	7689.6	7492.8	7437.5	8062.5	8787.6	9336.6	11342.7	13987.7
40°	10710.9	10590.0	10089.3	9512.7	9257.2	9094.9	9077.7	10020.3	10676.3	13031.2	15527.7
42.5°	11960.8	11739.8	11132.1	11090.7	11035.4	10866.3	10375.9	11822.7	12406.2	14847.4	17174.7
45°	13272.9	12938.0	12033.3	11877.9	11857.2	11846.9	12337.2	13956.6	14291.5	16815.6	18866.6
47.5°	14291.5	14025.6	13283.3	13214.2	13300.5	13535.3	14930.3	16221.7	16152.6	18569.7	20285.7
50°	15648.5	15448.2	14623.0	14754.2	15199.6	15582.9	17854.9	18690.5	17682.3	19950.8	21318.2
52.5°	17250.6	16881.2	16114.6	16470.3	17154.0	17792.8	20959.1	20852.0	18756.1	20990.1	22088.1
55°	18638.7	18376.3	18113.9	18483.3	19505.4	20303.0	23762.8	22471.4	19536.5	21825.7	22426.5
57.5°	20986.7	20924.5	20655.2	21031.6	22271.2	23099.8	26273.1	23728.3	20037.1	22260.8	22029.4
60°	24460.3	24360.2	23859.5	24339.4	25955.4	27257.1	28586.5	24857.4	20151.1	22091.6	20886.5
62.5°	28638.3	28296.4	27868.3	28576.1	30792.9	31366.1	30765.3	25527.2	19726.4	20745.0	18131.1
65°	32540.1	32187.9	32198.2	33689.9	36103.4	36493.6	33306.6	25427.1	18483.3	17371.5	13373.0
67.5°	35526.8	35468.1	35889.4	38800.1	41956.1	41686.8	35578.6	23928.5	14799.1	11259.9	7106.1
70°	35678.7	35792.7	37001.2	41914.7	45118.9	44690.8	35385.2	19450.1	9226.1	5179.3	2800.3
71°	33841.8	34608.3	36279.5	41818.0	45305.4	44749.5	33755.5	16290.7	6767.7	3611.7	2019.9
72.5°	28838.6	29242.5	32854.3	39356.1	43831.0	42643.2	29622.4	11418.7	4333.4	2209.9	1160.2
75°	15883.3	16877.7	22001.8	30875.8	35057.2	34014.4	19305.1	5424.5	2161.5	1208.5	480.0
77.5°	7561.8	7368.5	10735.0	18362.5	23769.7	23714.5	9726.8	2410.1	1260.3	818.3	241.7
80°	2161.5	2430.8	4108.9	8728.9	13197.0	13342.0	3736.0	1163.6	873.6	638.8	124.3
82.5°	652.6	666.4	1508.9	3860.3	6563.9	6187.6	1401.9	593.9	628.4	507.6	72.5
85°	113.9	141.6	445.4	1360.4	2503.3	1899.1	352.2	283.1	414.3	334.9	41.4
87.5°	6.9	10.4	148.5	155.4	221.0	127.8	62.2	41.4	89.8	89.8	24.2
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°	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8	7233.8
2.5°	7258.0	7278.7	7264.9	7233.8	7182.0	7119.9	7037.0	6967.9	6909.2	6878.2	6916.1
5°	7302.9	7330.5	7261.4	7106.1	6871.3	6615.7	6325.7	6101.3	5925.2	5869.9	5849.2
7.5°	7371.9	7389.2	7202.7	6857.4	6360.2	5756.0	5227.7	4782.3	4437.0	4333.4	4181.5
10°	7461.7	7451.3	7099.1	6456.9	5583.3	4675.2	3856.9	3249.2	2789.9	2624.2	2610.4
12.5°	7599.8	7544.6	6967.9	5911.4	4658.0	3470.2	2458.5	1923.3	1633.2	1536.5	1515.8
15°	7772.5	7641.2	6760.8	5272.6	3566.8	2240.9	1515.8	1353.5	1315.6	1308.6	1301.7
17.5°	7976.2	7769.0	6488.0	4488.8	2506.8	1453.7	1267.2	1263.8	1267.2	1260.3	1256.9
20°	8252.4	7903.7	6163.4	3559.9	1657.4	1225.8	1208.5	1208.5	1212.0	1208.5	1208.5
22.5°	8545.9	8062.5	5762.9	2717.4	1249.9	1163.6	1160.2	1167.1	1174.0	1170.5	1170.5
25°	8908.5	8269.7	5234.6	1861.1	1118.7	1111.8	1115.3	1129.1	1142.9	1146.4	1142.9
27.5°	9433.3	8525.2	4668.3	1281.0	1025.5	1032.4	1066.9	1101.5	1122.2	1125.6	1125.6
30°	10023.7	8808.3	3929.4	1039.3	949.5	949.5	991.0	1056.6	1101.5	1108.4	1111.8
32.5°	10783.4	9136.4	3111.1	935.7	877.0	870.1	908.1	987.5	1070.4	1094.6	1094.6
35°	11722.6	9523.1	2313.4	870.1	825.2	808.0	828.7	894.3	1001.3	1070.4	1077.3
37.5°	12824.0	9889.1	1691.9	811.4	776.9	752.7	766.5	818.3	904.7	1008.2	1035.9
40°	13842.6	10213.7	1263.8	763.1	728.6	711.3	721.7	745.8	818.3	915.0	932.3
42.5°	14954.5	10465.7	1004.8	711.3	680.2	673.3	673.3	683.7	732.0	787.3	790.7
45°	16062.9	10555.5	842.5	649.1	628.4	635.3	631.9	625.0	645.7	638.8	638.8
47.5°	16853.6	10448.5	697.5	590.4	590.4	600.8	583.5	559.4	549.0	507.6	511.0
50°	17395.7	10058.3	573.2	521.4	549.0	562.8	528.3	490.3	452.3	407.4	397.1
52.5°	17620.1	9364.2	469.6	431.6	486.9	504.1	462.7	417.8	359.1	321.1	310.8
55°	17475.1	8507.9	390.2	352.2	410.9	431.6	390.2	338.4	272.8	231.3	224.4
57.5°	16836.3	7485.9	331.5	279.7	328.0	341.8	314.2	259.0	193.4	151.9	151.9
60°	15731.4	6429.3	269.3	221.0	245.2	265.9	238.2	186.5	131.2	93.2	86.3
62.5°	13490.4	5220.8	217.5	172.6	172.6	189.9	165.7	134.7	82.9	48.3	44.9
65°	9740.6	3580.6	172.6	127.8	124.3	124.3	103.6	89.8	48.3	20.7	13.8
67.5°	5293.3	2019.9	138.1	96.7	86.3	82.9	65.6	51.8	20.7	3.5	0.0
70°	2082.1	776.9	107.0	65.6	55.2	51.8	34.5	24.2	13.8	0.0	0.0
71°	1412.2	535.2	93.2	55.2	44.9	38.0	27.6	20.7	10.4	0.0	0.0
72.5°	808.0	331.5	72.5	41.4	34.5	27.6	20.7	13.8	10.4	0.0	0.0
75°	352.2	169.2	44.9	31.1	24.2	17.3	13.8	10.4	3.5	0.0	0.0
77.5°	179.6	93.2	31.1	24.2	13.8	10.4	6.9	3.5	0.0	0.0	0.0
80°	100.1	48.3	20.7	13.8	10.4	6.9	3.5	3.5	0.0	0.0	0.0
82.5°	55.2	27.6	10.4	6.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.5	17.3	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	6.9	0.0	0.0	0.0	0.0	3.5	3.5	0.0	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)