

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: P457153

Luminaire Tested: **GALN-SA8C-727-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38899 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

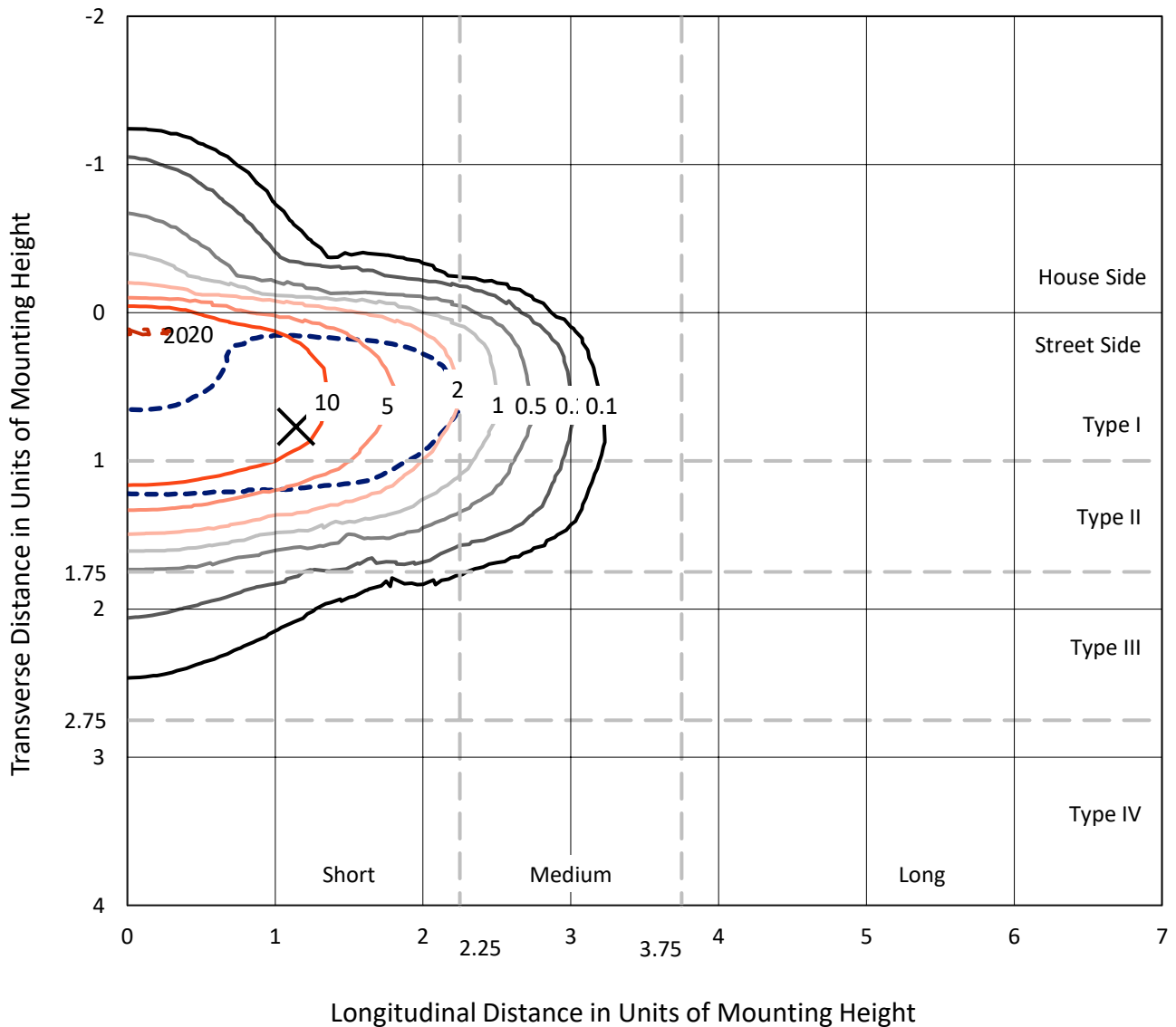
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

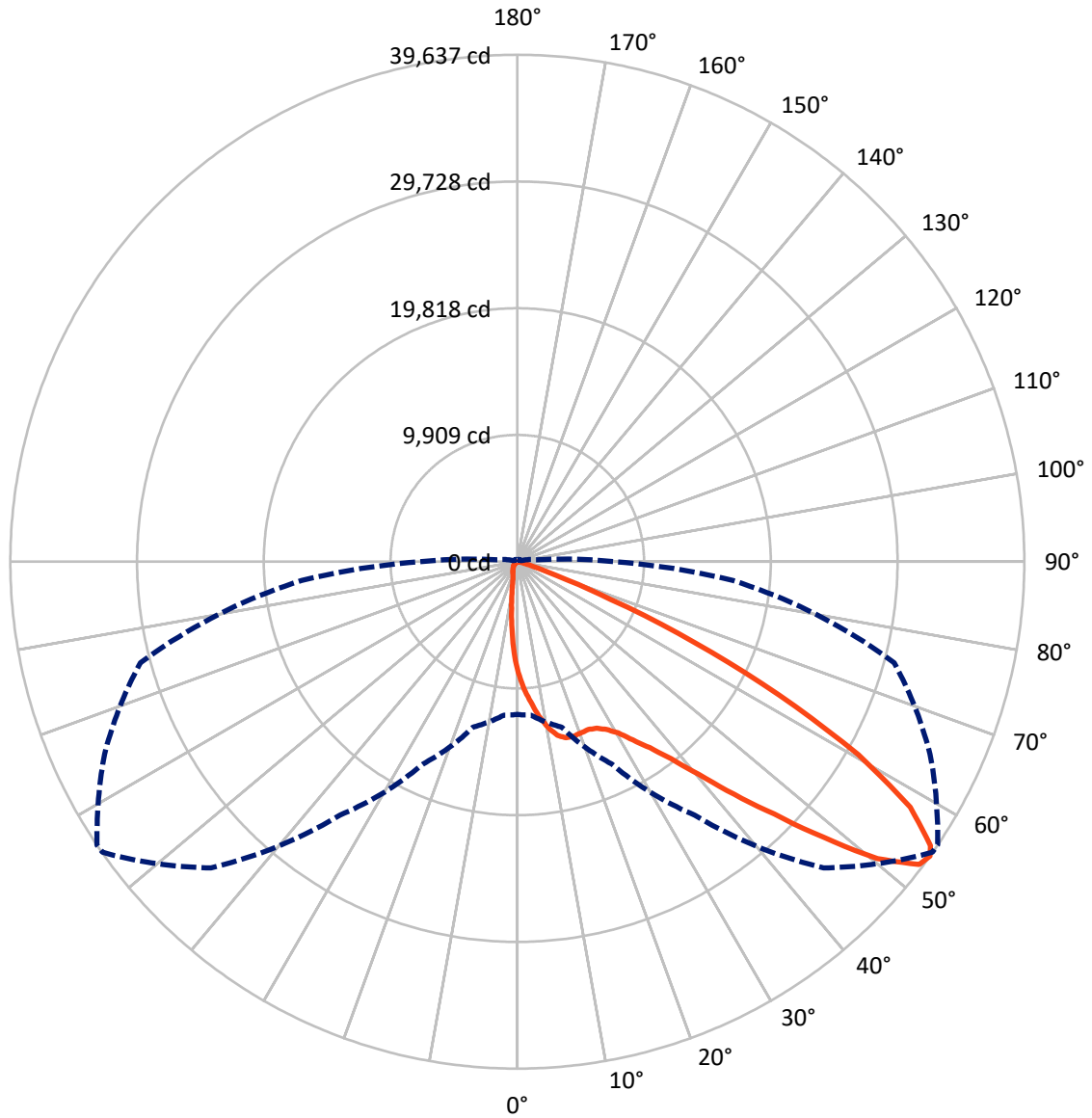
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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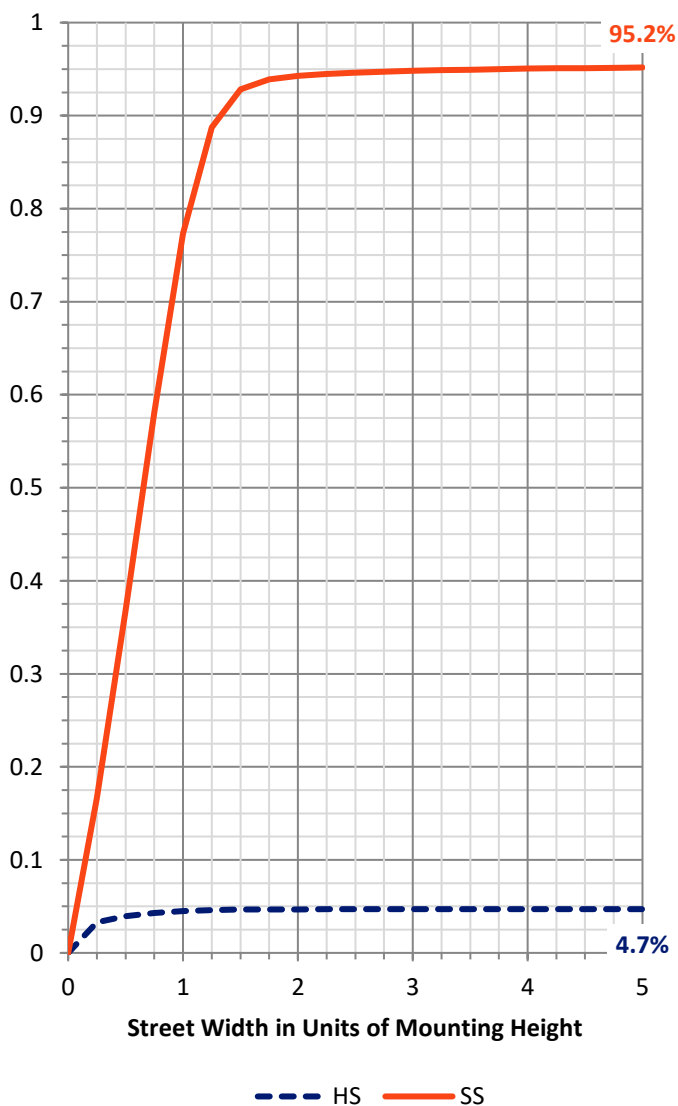
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1839.4	0.0	1839.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	37059.6	0.0	37059.6
	% Fixture	95.3	0.0	95.3
Total	Lumens	38899.0	0.0	38899.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.7	2.0
10°-20°	2064.5	5.3
20°-30°	3575.5	9.2
30°-40°	6171.9	15.9
40°-50°	10504.8	27.0
50°-60°	10395.8	26.7
60°-70°	4744.8	12.2
70°-80°	609.3	1.6
80°-90°	68.7	0.2
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°	38899.0	100.0
0°-180°	38899.0	100.0

Coefficient of Utilization



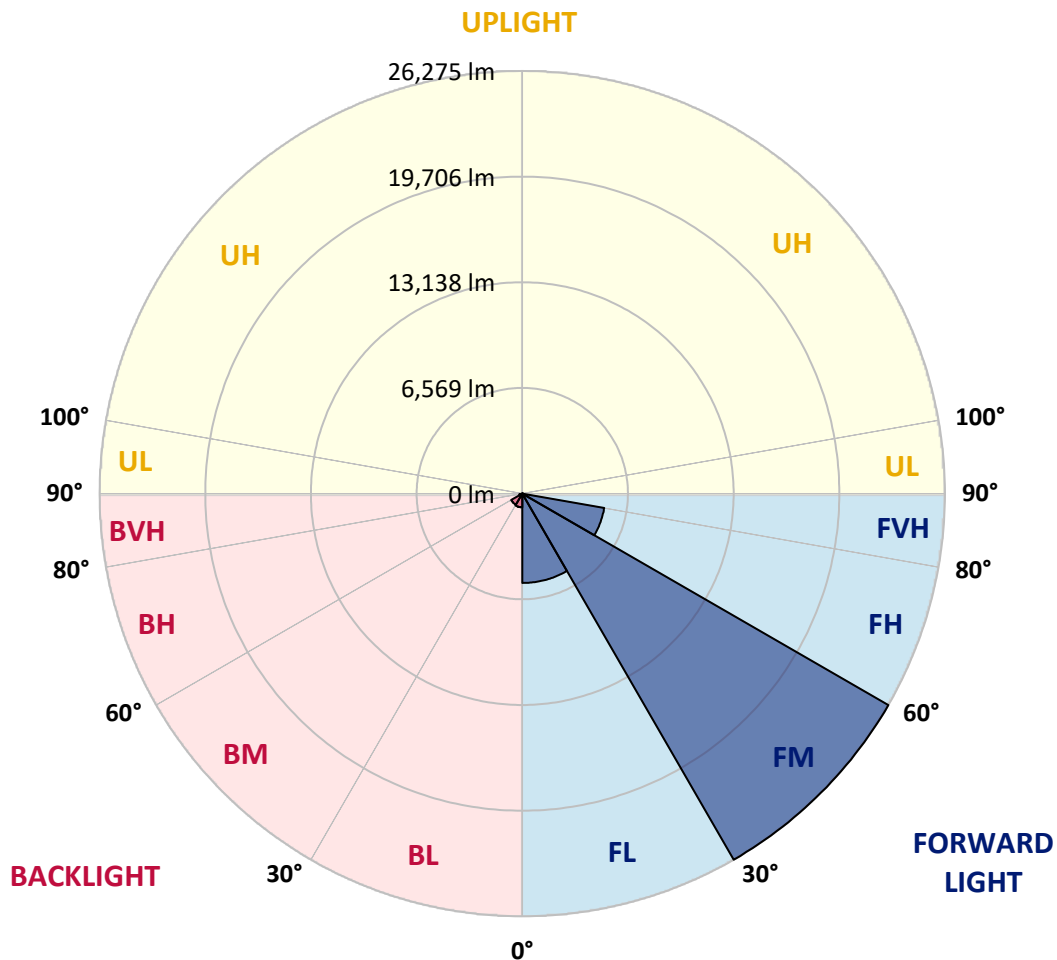
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5553.0	14.3			
FM	(30°-60°)	26275.3	67.5			
FH	(60°-80°)	5170.0	13.3			G3/7500
FVH	(80°-90°)	61.3	0.2			G1/100
BL	(0°-30°)	850.7	2.2	B2/1000		
BM	(30°-60°)	797.2	2.0	B1/1000		
BH	(60°-80°)	184.2	0.5	B1/500		G1/500
BVH	(80°-90°)	7.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2
2.5°	10983.2	10907.1	10802.1	10720.8	10529.2	10253.6	9962.3	9962.3	9681.5	9290.5	8891.6
5°	12668.1	12618.2	12515.9	12305.9	12090.7	11704.9	11119.7	11017.3	10516.1	9807.5	9062.1
7.5°	13353.1	13376.7	13382.0	13326.8	13224.5	12843.9	12263.9	12193.1	11392.6	10442.6	9285.2
10°	12697.0	12812.5	12925.3	13153.6	13476.4	13568.3	13240.2	13166.8	12379.4	11085.6	9526.7
12.5°	11720.7	11783.7	11846.7	12206.2	12854.4	13597.2	13941.0	13938.3	13271.7	11725.9	9833.7
15°	11266.7	11321.8	11327.0	11487.1	12048.7	13130.0	14240.1	14279.5	14143.0	12515.9	10164.4
17.5°	11361.1	11405.8	11369.0	11408.4	11702.3	12615.6	14206.0	14337.2	14849.0	13274.4	10463.6
20°	11977.9	12064.5	11922.8	11812.5	11901.8	12479.2	14090.6	14274.3	15347.7	14014.4	10736.5
22.5°	13085.4	13132.6	12954.2	12652.4	12494.9	12765.2	14059.1	14240.1	15772.8	14620.7	10894.0
25°	14316.3	14300.5	14103.7	13765.1	13434.4	13342.6	14266.4	14429.1	16124.5	15166.6	10941.2
27.5°	15547.1	15594.3	15263.7	14843.8	14447.5	14208.7	14730.9	14851.6	16520.8	15788.6	10999.0
30°	16977.4	16901.3	16575.9	16095.6	15641.6	15308.3	15478.9	15513.0	17066.7	16612.6	11151.2
32.5°	18838.1	18628.2	18263.4	17423.6	17098.1	16533.9	16575.9	16617.9	17730.6	17428.8	11334.9
35°	21362.8	21352.3	20638.5	19507.4	18714.8	18014.1	17830.4	17864.5	18735.8	18641.3	11741.7
37.5°	24401.9	24443.9	23630.3	22491.3	21032.2	19919.4	19541.5	19546.7	20263.2	20315.7	12361.1
40°	26876.8	26987.0	26501.5	25732.5	24291.7	22551.7	21916.6	21858.9	22410.0	22344.4	13245.5
42.5°	27942.3	28044.6	28225.7	28493.4	27700.8	26265.3	24766.7	24845.5	25013.4	24554.1	14237.5
45°	27420.0	27582.7	28294.0	29947.3	30692.7	30209.8	28422.5	28147.0	27435.8	26955.5	15234.8
47.5°	25244.4	25640.7	26829.5	29582.5	32191.2	33823.6	32548.1	32183.4	29860.7	28708.6	15869.9
50°	21667.3	21690.9	23346.9	26866.3	31414.4	36104.2	36760.4	36487.4	32120.4	29692.8	16190.1
52.5°	15707.2	16224.2	17741.1	21816.9	28049.9	35757.8	39445.1	39332.3	34450.9	30196.7	16652.0
54°	11941.1	12040.9	13389.8	17434.1	24184.1	33855.1	39610.5	39636.7	35608.2	30501.1	16924.9
55°	9789.1	9550.3	10967.5	14851.6	21546.5	32172.9	39069.9	39195.8	36127.9	30658.6	17127.0
57.5°	4640.0	4642.6	5726.5	7833.9	13494.8	24981.9	35765.7	36211.9	36185.6	30928.9	17749.0
60°	2348.9	2364.6	2603.4	3616.5	6666.0	16607.4	29572.0	30634.9	33401.1	30968.2	17953.7
62.5°	1642.9	1624.5	1585.2	1740.0	2805.5	8440.2	22016.3	22940.1	28377.9	29469.7	17302.9
65°	1406.7	1367.3	1257.1	1233.5	1417.2	3361.9	13712.6	15219.1	21667.3	25517.3	15450.0
67.5°	1202.0	1186.2	1086.5	1026.2	1002.5	1464.4	7075.5	7868.0	14809.6	18342.1	11702.3
70°	1020.9	1013.0	952.7	876.6	810.9	876.6	2624.4	3251.7	8253.8	9875.7	5521.8
72.5°	829.3	837.2	847.7	750.6	682.4	622.0	1120.6	1304.3	3453.7	3529.9	1931.6
75°	727.0	719.1	719.1	653.5	569.5	461.9	616.7	664.0	1057.6	981.5	448.8
77.5°	511.8	493.4	577.4	538.0	475.0	328.1	351.7	372.7	438.3	375.3	210.0
80°	354.3	354.3	370.0	482.9	427.8	238.8	215.2	230.9	259.8	223.1	120.7
82.5°	199.5	204.7	241.4	257.2	249.3	160.1	141.7	144.3	173.2	152.2	76.1
85°	23.6	39.4	139.1	136.5	102.4	70.9	78.7	81.4	107.6	94.5	44.6
87.5°	2.6	5.2	28.9	36.7	26.2	28.9	28.9	28.9	36.7	42.0	31.5
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°	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2	8642.2
2.5°	8676.4	8476.9	8001.9	7450.7	7099.1	6527.0	6044.1	5695.0	5608.4	5440.4	5490.3
5°	8665.9	8251.2	7282.8	6259.3	5167.5	4353.9	3747.7	3270.0	3060.1	2921.0	2823.9
7.5°	8671.1	8022.9	6469.2	4839.4	3535.1	2737.3	2175.7	1884.3	1690.1	1608.8	1619.3
10°	8686.9	7765.7	5524.4	3585.0	2385.6	1768.9	1425.1	1286.0	1220.4	1209.9	1207.2
12.5°	8723.6	7484.9	4621.6	2661.2	1669.1	1286.0	1154.7	1107.5	1086.5	1086.5	1078.6
15°	8763.0	7175.2	3871.0	1978.8	1286.0	1104.9	1044.5	1020.9	1007.8	1007.8	1005.2
17.5°	8763.0	6818.3	3170.3	1535.3	1107.5	1015.7	968.4	936.9	926.4	926.4	923.8
20°	8707.9	6403.6	2548.3	1236.1	1005.2	931.7	884.4	850.3	837.2	831.9	829.3
22.5°	8516.3	5849.8	2028.7	1062.9	921.2	858.2	797.8	758.5	748.0	742.7	745.3
25°	8175.1	5225.2	1606.1	934.3	845.1	769.0	716.5	687.6	677.1	677.1	679.7
27.5°	7823.4	4571.8	1272.8	837.2	753.2	685.0	643.0	624.6	622.0	629.9	632.5
30°	7498.0	3915.6	1031.4	758.5	671.9	614.1	585.2	580.0	580.0	582.6	585.2
32.5°	7135.8	3340.9	863.4	690.2	606.2	556.4	540.6	540.6	545.9	545.9	551.1
35°	6907.5	2847.5	758.5	624.6	556.4	514.4	503.9	506.5	514.4	524.9	530.1
37.5°	6784.1	2453.8	690.2	572.1	509.1	480.3	469.8	475.0	493.4	511.8	514.4
40°	6794.6	2157.3	635.1	527.5	472.4	440.9	433.0	448.8	467.1	485.5	488.1
42.5°	6910.1	1936.8	582.6	475.0	440.9	396.3	393.7	409.4	417.3	435.7	438.3
45°	7046.6	1776.7	527.5	419.9	383.2	343.8	346.4	359.5	370.0	398.9	404.2
47.5°	7088.6	1666.5	464.5	356.9	314.9	301.8	304.4	312.3	333.3	359.5	362.2
50°	7135.8	1598.3	404.2	301.8	267.7	265.1	267.7	272.9	286.1	296.6	293.9
52.5°	7337.9	1595.7	354.3	262.4	228.3	233.6	236.2	233.6	223.1	207.3	202.1
54°	7526.9	1603.5	330.7	244.1	210.0	217.8	215.2	202.1	175.8	160.1	152.2
55°	7679.1	1611.4	317.6	230.9	199.5	202.1	204.7	178.5	144.3	128.6	123.3
57.5°	7978.3	1593.0	286.1	202.1	175.8	165.3	162.7	118.1	78.7	68.2	63.0
60°	7828.7	1438.2	259.8	173.2	149.6	133.8	110.2	65.6	39.4	28.9	28.9
62.5°	7240.8	1220.4	230.9	141.7	123.3	102.4	57.7	36.7	18.4	10.5	7.9
65°	6477.1	1026.2	207.3	112.9	97.1	65.6	31.5	23.6	7.9	0.0	0.0
67.5°	4815.8	761.1	175.8	89.2	73.5	42.0	21.0	13.1	2.6	0.0	0.0
70°	2230.8	464.5	149.6	68.2	52.5	31.5	15.7	7.9	0.0	0.0	0.0
72.5°	640.4	291.3	123.3	49.9	36.7	26.2	13.1	5.2	2.6	0.0	0.0
75°	223.1	233.6	91.9	36.7	28.9	18.4	10.5	5.2	2.6	0.0	0.0
77.5°	133.8	189.0	57.7	31.5	23.6	15.7	10.5	5.2	2.6	2.6	0.0
80°	76.1	126.0	36.7	26.2	21.0	13.1	7.9	5.2	2.6	2.6	0.0
82.5°	42.0	60.4	28.9	23.6	18.4	13.1	7.9	5.2	2.6	2.6	2.6
85°	34.1	31.5	23.6	21.0	15.7	10.5	7.9	2.6	0.0	0.0	0.0
87.5°	26.2	21.0	21.0	21.0	15.7	10.5	7.9	2.6	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)