

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: P648173

Luminaire Tested: **GALN-SA9A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25989.3 lumens
Efficiency: N/A
Efficacy: 94.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

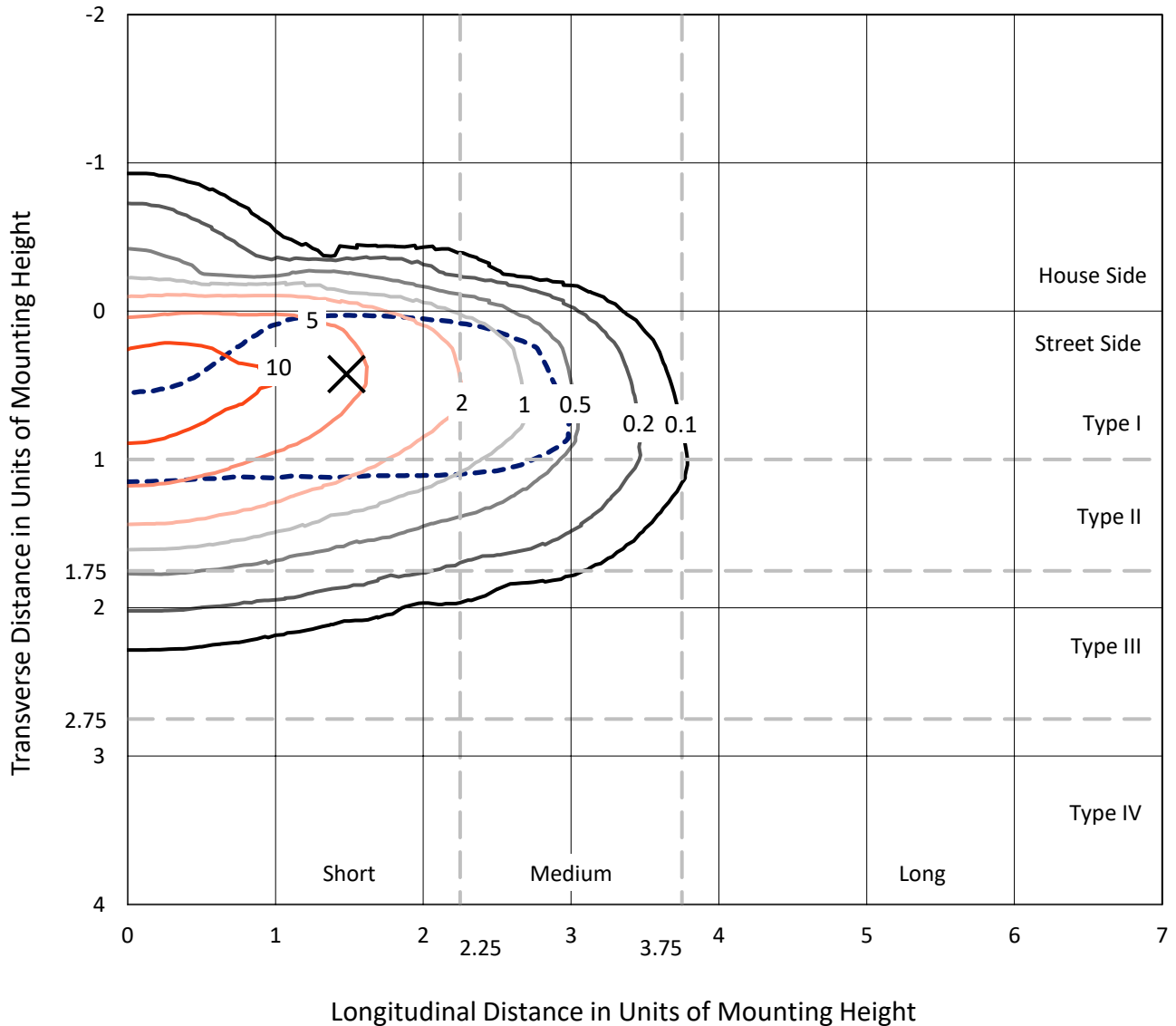
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

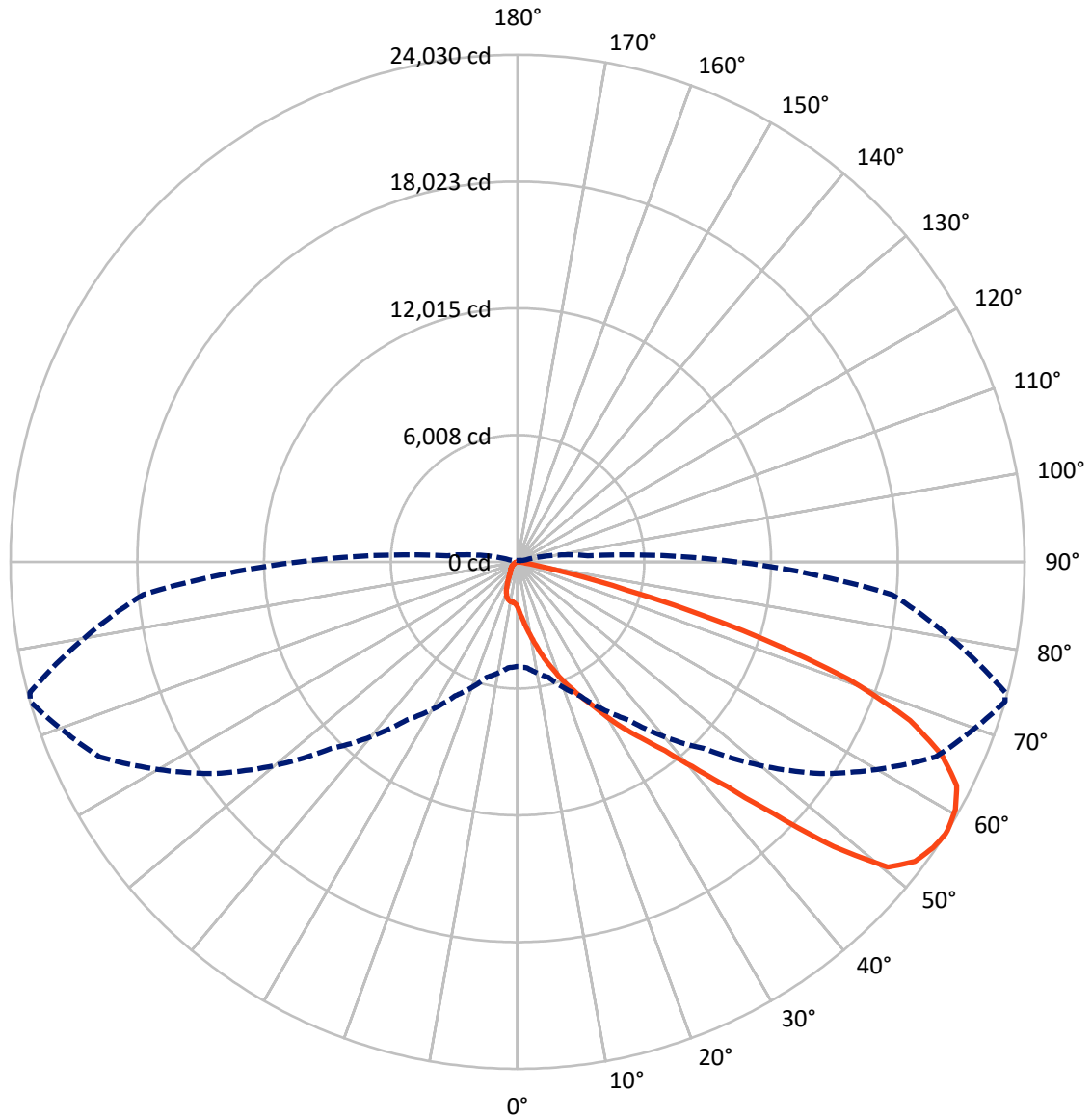
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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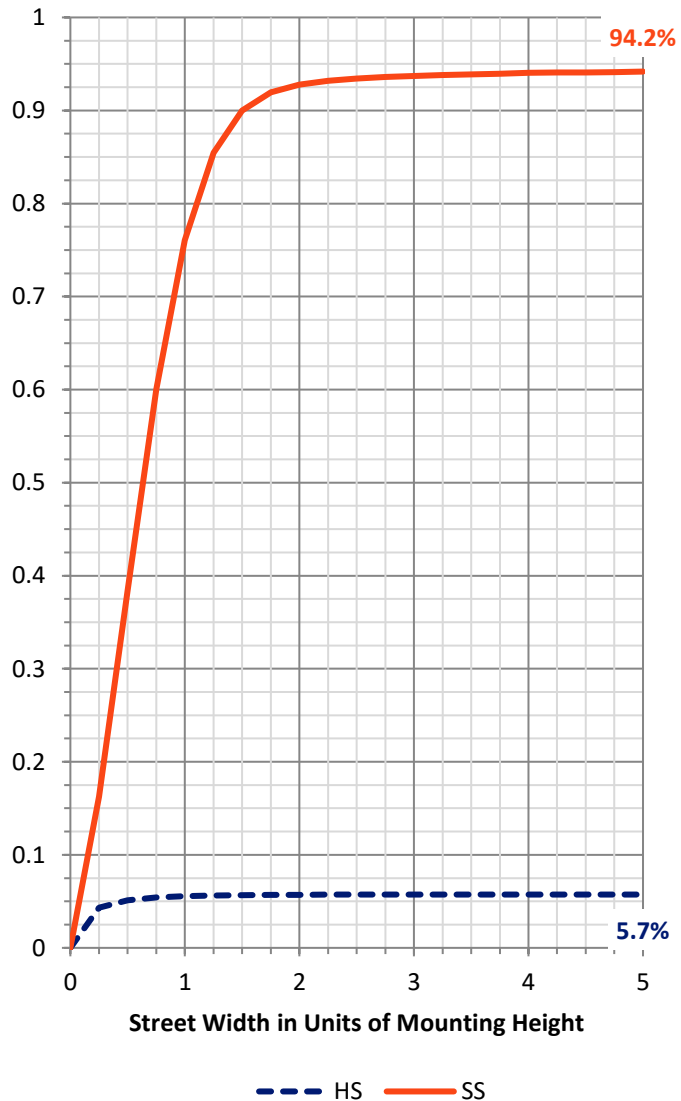
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1499.0	0.0	1499.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	24490.4	0.0	24490.4
	% Fixture	94.2	0.0	94.2
Total	Lumens	25989.3	0.0	25989.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	1.0
10°-20°	1035.5	4.0
20°-30°	2215.8	8.5
30°-40°	4072.6	15.7
40°-50°	6243.3	24.0
50°-60°	6604.6	25.4
60°-70°	4313.0	16.6
70°-80°	1178.5	4.5
80°-90°	63.4	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°	25989.3	100.0
0°-180°	25989.3	100.0

Coefficient of Utilization

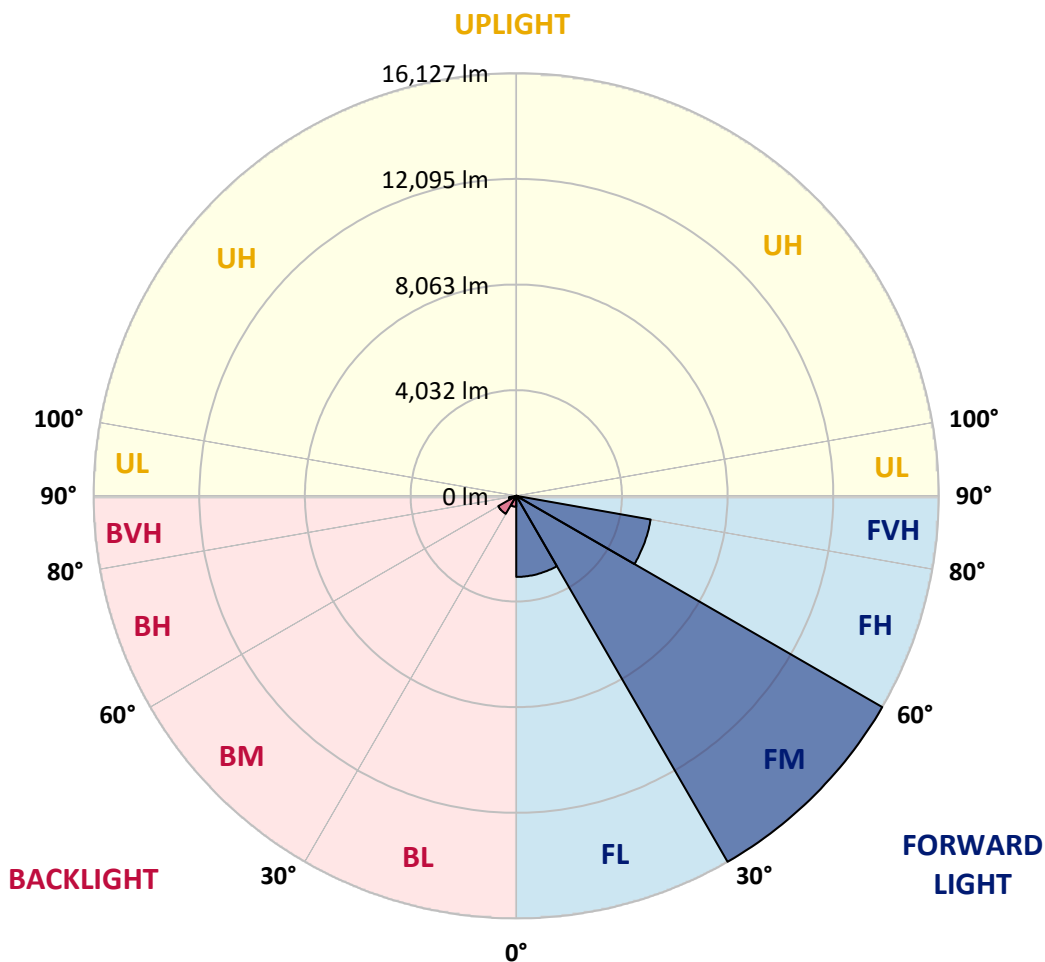


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3095.3	11.9			
FM (30°-60°)	16126.9	62.1			
FH (60°-80°)	5210.0	20.0			G3/7500
FVH (80°-90°)	58.2	0.2			G1/100
BL (0°-30°)	418.7	1.6	B1/500		
BM (30°-60°)	793.6	3.1	B1/1000		
BH (60°-80°)	281.4	1.1	B1/500		G1/500
BVH (80°-90°)	5.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6
2.5°	3185.0	3156.3	3098.9	3079.1	2994.8	2863.8	2749.0	2594.6	2472.6	2460.1	2313.0
5°	4265.2	4200.6	4173.7	4044.5	3841.7	3651.5	3325.0	3077.3	2792.0	2770.5	2474.4
7.5°	5305.9	5216.3	5189.3	5067.3	4830.5	4530.8	4107.3	3656.9	3204.7	3163.5	2691.6
10°	6059.6	6072.2	6023.7	5943.0	5751.0	5445.9	4923.7	4308.3	3664.1	3612.1	2935.6
12.5°	6599.7	6597.9	6606.9	6605.1	6502.8	6271.4	5722.2	5013.5	4170.1	4067.8	3215.5
15°	6951.4	6956.8	6983.7	7077.0	7087.8	6944.2	6486.7	5688.2	4756.9	4629.5	3518.8
17.5°	7306.7	7344.4	7387.4	7475.4	7554.3	7496.9	7173.9	6391.6	5288.0	5192.9	3843.5
20°	7893.4	7945.5	7920.4	7974.2	8015.5	8020.8	7771.4	7041.1	5932.2	5772.5	4215.0
22.5°	8831.9	8830.1	8765.5	8668.6	8587.9	8584.3	8358.2	7708.6	6517.1	6362.8	4588.2
25°	10018.0	10023.3	9897.7	9621.4	9420.4	9174.6	8914.5	8293.6	7143.4	6953.2	4981.2
27.5°	11378.1	11344.0	11153.8	10773.4	10375.1	9955.1	9580.2	8973.6	7807.3	7649.4	5431.6
30°	12600.1	12587.5	12365.0	11900.3	11376.3	10954.6	10410.9	9825.9	8666.8	8473.0	5935.8
32.5°	13737.7	13755.7	13447.0	12966.2	12460.1	11973.9	11399.6	10640.7	9510.2	9235.6	6484.9
35°	14625.9	14643.9	14324.4	13924.3	13403.9	13000.2	12452.9	11509.1	10342.7	10111.3	7116.5
37.5°	15099.6	15122.9	14938.2	14636.7	14311.9	14109.1	13599.5	12627.0	11354.8	11214.8	7863.0
40°	15189.3	15216.3	15135.5	15054.7	15036.8	15182.2	15033.2	13944.1	12758.0	12539.0	8975.5
42.5°	14920.2	14956.1	14991.9	15171.4	15537.5	16070.4	16589.0	15731.3	14564.9	14270.6	10335.6
45°	14213.3	14209.6	14351.4	14816.2	15636.1	16773.8	18214.7	17968.8	17026.8	16676.9	12257.3
47.5°	13003.8	12985.9	13292.7	13954.9	15232.4	16903.0	19540.7	20685.5	20168.7	19845.8	14322.7
50°	11161.0	11248.9	11731.6	12655.7	14229.4	16511.8	19949.8	22467.3	22747.2	22404.5	15991.4
52.5°	9002.4	8998.8	9756.0	11010.2	12743.6	15650.5	19664.5	22790.3	23585.2	23323.2	16813.3
55°	6662.5	6709.1	7496.9	8761.9	10814.7	14078.7	18733.3	22458.3	23904.6	23719.8	17355.2
57°	4956.1	5038.6	5670.3	7008.8	9135.2	12522.9	17493.3	21864.4	24030.2	23929.7	17805.6
57.5°	4625.9	4629.5	5244.9	6461.6	8643.5	11925.4	17138.1	21616.8	24026.7	23971.0	17879.1
60°	2847.7	2937.4	3362.7	4367.5	6327.0	9307.4	14756.9	20193.9	23840.0	23920.8	18193.2
62.5°	1704.7	1742.3	2018.7	2632.4	4078.6	6793.5	12076.1	18372.5	23353.8	23599.5	18171.6
65°	1096.4	1105.4	1231.0	1593.4	2549.8	4591.8	9305.6	15966.3	22095.9	22548.1	17461.1
67.5°	847.0	861.3	911.6	1046.1	1478.5	2860.2	6581.7	13398.5	20061.1	20644.3	15738.5
70°	751.8	759.0	777.0	820.0	978.0	1614.9	4094.8	10466.6	16635.6	16800.7	12316.6
72.5°	613.6	633.4	689.0	703.4	775.2	1008.4	2278.8	7025.0	11177.2	11218.4	6890.4
75°	475.5	479.1	561.6	602.9	653.2	694.4	1017.4	3542.1	5368.8	5081.7	2655.7
77.5°	355.2	371.5	409.1	461.2	532.9	497.0	455.8	1335.0	1667.0	1636.5	771.6
80°	227.9	236.9	285.3	346.3	414.5	324.8	256.6	391.2	366.1	376.8	184.8
82.5°	114.9	116.7	183.0	281.7	263.8	163.3	161.5	159.7	136.4	134.6	86.1
85°	12.5	26.9	118.4	161.5	118.4	53.8	75.3	73.6	71.8	73.6	50.3
87.5°	1.8	1.8	19.7	23.3	16.1	17.9	21.5	23.3	28.7	26.9	21.5
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°	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6	2176.6
2.5°	2241.2	2169.4	2036.6	1909.2	1814.1	1753.1	1674.1	1645.5	1604.1	1598.8	1579.1
5°	2338.0	2201.7	1970.2	1787.2	1640.1	1528.8	1431.9	1351.1	1286.5	1272.2	1279.4
7.5°	2476.2	2273.4	1950.5	1701.1	1496.5	1306.3	1151.9	1056.9	988.7	963.6	967.2
10°	2632.4	2368.6	1946.9	1609.5	1297.4	1064.1	895.4	811.0	771.6	757.2	741.1
12.5°	2817.2	2478.0	1937.9	1467.8	1078.4	848.8	728.5	678.2	640.6	629.8	629.8
15°	3025.3	2594.6	1894.9	1292.0	875.6	701.6	620.8	581.4	568.8	558.0	558.0
17.5°	3242.4	2709.5	1805.1	1074.8	726.7	601.1	550.8	527.5	509.6	497.0	497.0
20°	3490.1	2822.6	1661.6	882.8	613.6	536.5	497.0	470.1	455.8	445.0	441.4
22.5°	3725.1	2914.1	1478.5	724.9	534.7	482.7	446.8	418.1	403.7	398.3	398.3
25°	3969.2	2969.7	1257.9	599.3	488.0	437.9	398.3	375.1	362.5	358.8	357.0
27.5°	4206.0	3002.0	1064.1	524.0	445.0	396.6	358.8	340.9	328.4	324.8	326.6
30°	4493.1	3007.3	875.6	470.1	407.3	357.0	323.0	306.9	299.7	296.1	294.3
32.5°	4783.8	3000.2	735.7	437.9	371.5	323.0	294.3	281.7	276.3	270.9	270.9
35°	5110.4	2962.5	626.2	405.5	337.3	294.3	269.1	258.4	251.2	245.9	244.1
37.5°	5515.9	2942.7	563.4	369.7	306.9	267.4	244.1	233.3	227.9	220.7	218.9
40°	6154.7	3030.7	543.7	337.3	276.3	242.3	220.7	208.1	201.0	193.8	192.0
42.5°	6951.4	3185.0	511.4	305.1	249.4	218.9	197.4	183.0	170.5	161.5	157.9
45°	7983.2	3387.8	461.2	270.9	226.1	193.8	174.1	156.1	139.9	132.8	131.0
47.5°	9065.2	3583.4	416.3	244.1	201.0	172.3	150.7	131.0	116.7	111.3	109.5
50°	9729.1	3622.9	387.6	213.5	175.9	148.9	127.4	109.5	100.5	95.1	95.1
52.5°	10032.3	3560.1	348.1	186.6	152.5	131.0	109.5	95.1	89.7	86.1	84.3
55°	10244.1	3463.1	296.1	161.5	131.0	111.3	96.9	86.1	78.9	75.3	73.6
57°	10367.9	3332.1	256.6	141.7	113.1	96.9	86.1	77.1	70.0	62.8	62.8
57.5°	10373.3	3281.9	245.9	139.9	107.7	93.3	84.3	75.3	66.4	59.2	57.4
60°	10213.5	2937.4	197.4	118.4	86.1	78.9	70.0	59.2	46.7	39.5	37.7
62.5°	9700.4	2499.6	163.3	100.5	70.0	61.0	50.3	44.9	32.3	23.3	23.3
65°	8923.4	2027.7	139.9	80.7	57.4	44.9	34.1	32.3	19.7	10.7	9.0
67.5°	7800.2	1579.1	118.4	66.4	48.5	32.3	23.3	21.5	10.7	3.6	0.0
70°	5943.0	1076.6	98.7	53.8	35.9	23.3	16.1	12.5	7.2	1.8	0.0
72.5°	3425.5	592.1	82.5	41.3	26.9	17.9	12.5	7.2	7.2	0.0	0.0
75°	1223.8	254.8	62.8	30.5	21.5	14.3	9.0	3.6	5.4	1.8	0.0
77.5°	389.4	136.4	41.3	23.3	17.9	10.7	7.2	3.6	3.6	1.8	0.0
80°	114.9	71.8	25.1	19.7	12.5	9.0	5.4	1.8	3.6	1.8	0.0
82.5°	62.8	35.9	19.7	14.3	12.5	7.2	5.4	1.8	1.8	1.8	0.0
85°	32.3	21.5	16.1	14.3	12.5	7.2	5.4	1.8	0.0	1.8	1.8
87.5°	17.9	16.1	16.1	14.3	12.5	9.0	5.4	1.8	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)