

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: P382670

Luminaire Tested: **GLEON-SA0C-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382670
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA0C-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46394.8 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G5

Input Watts (W): 558
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

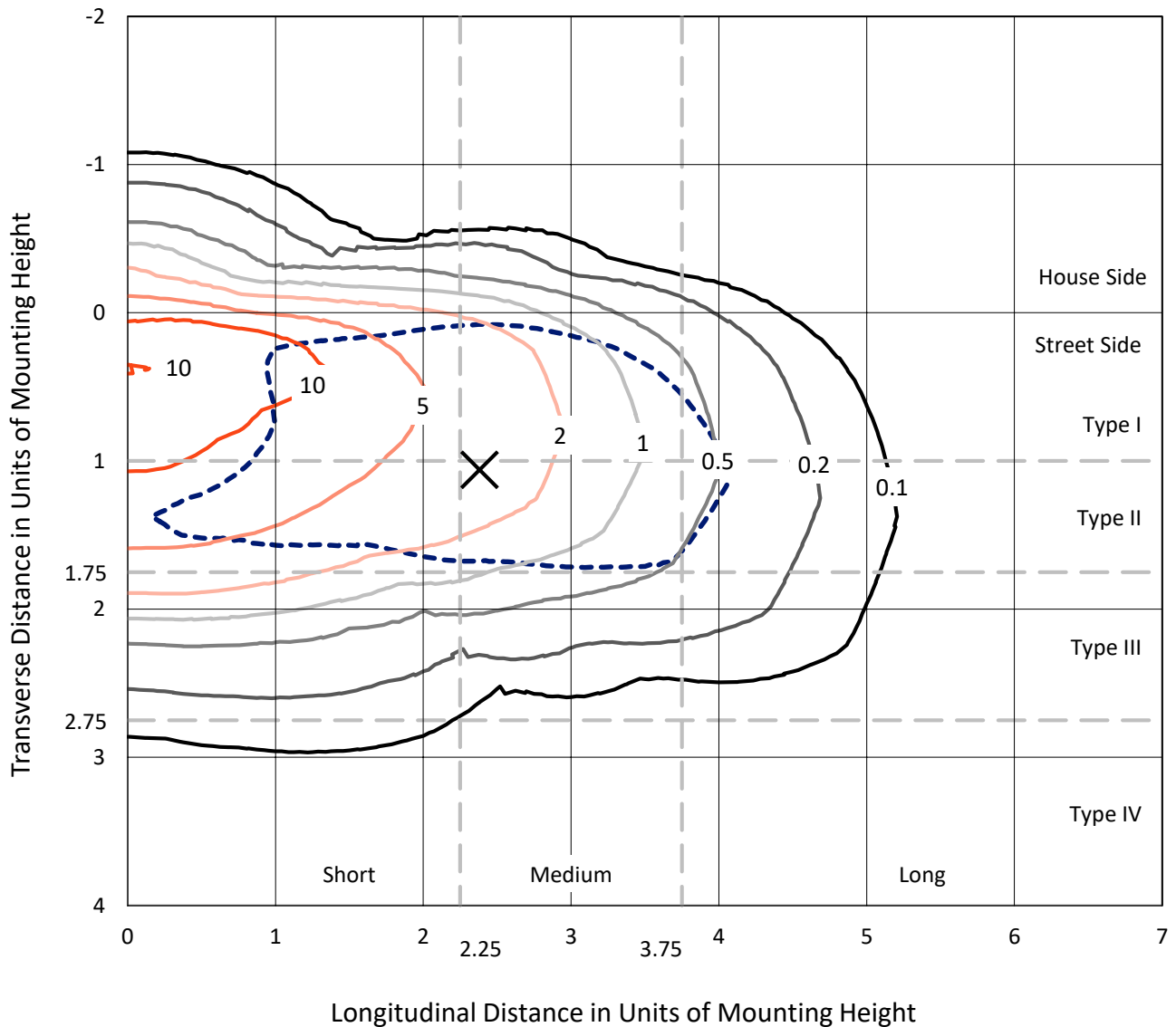




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Iso-Footcandle Lines of Horizontal Illumination

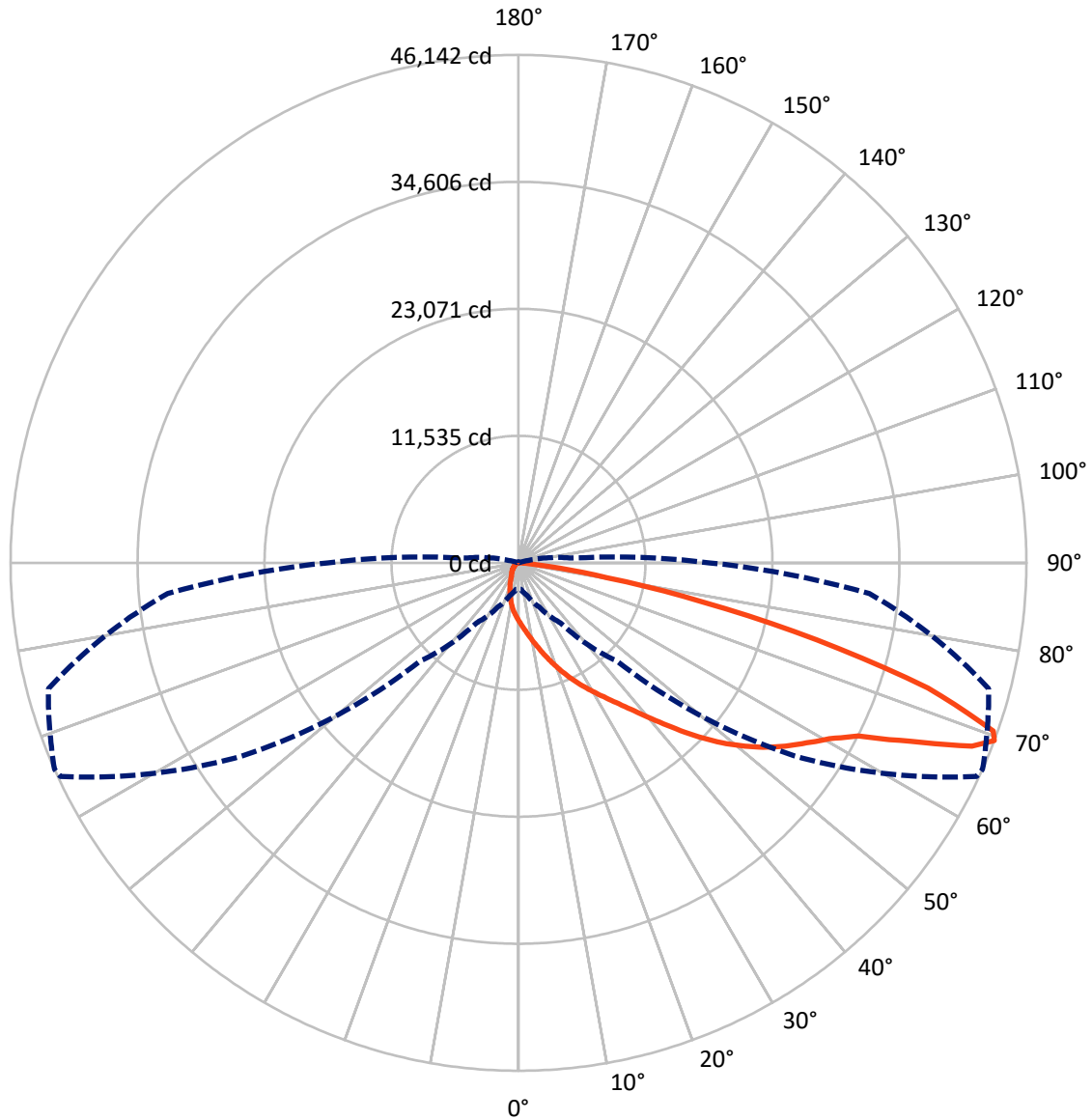
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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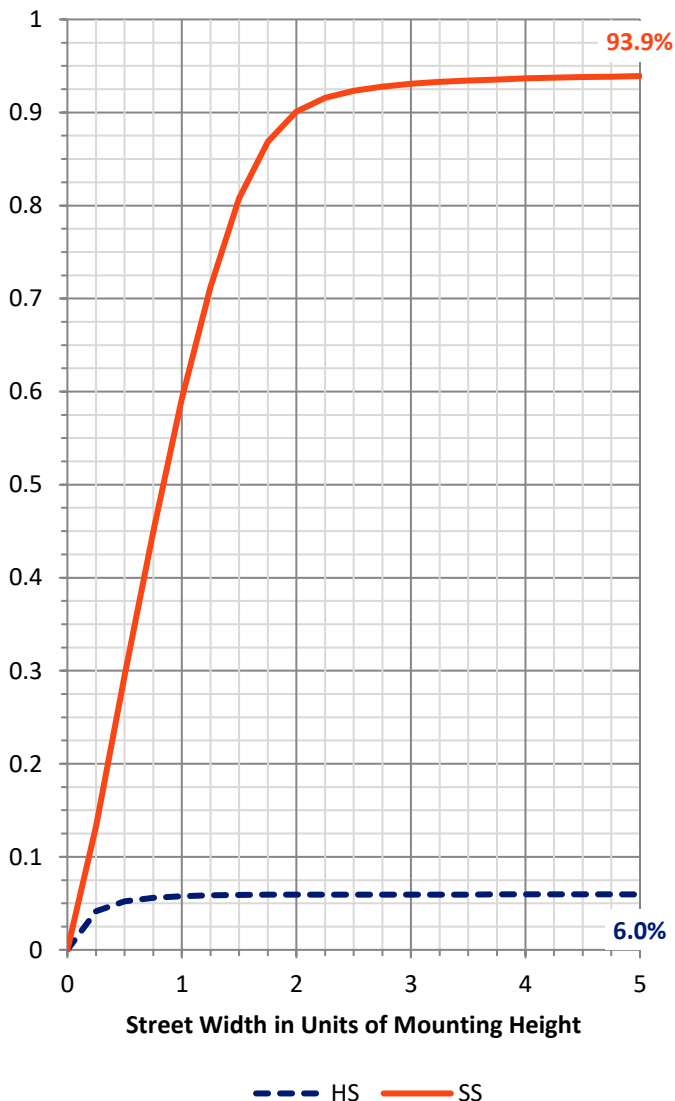
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.0	0.0	2783.0
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	43611.8	0.0	43611.8
	% Fixture	94.0	0.0	94.0
Total	Lumens	46394.8	0.0	46394.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.4	1.1
10°-20°	1519.0	3.3
20°-30°	2645.1	5.7
30°-40°	4640.7	10.0
40°-50°	7767.9	16.7
50°-60°	11418.1	24.6
60°-70°	11723.5	25.3
70°-80°	5787.6	12.5
80°-90°	382.7	0.8
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°	46394.8	100.0
0°-180°	46394.8	100.0

Coefficient of Utilization

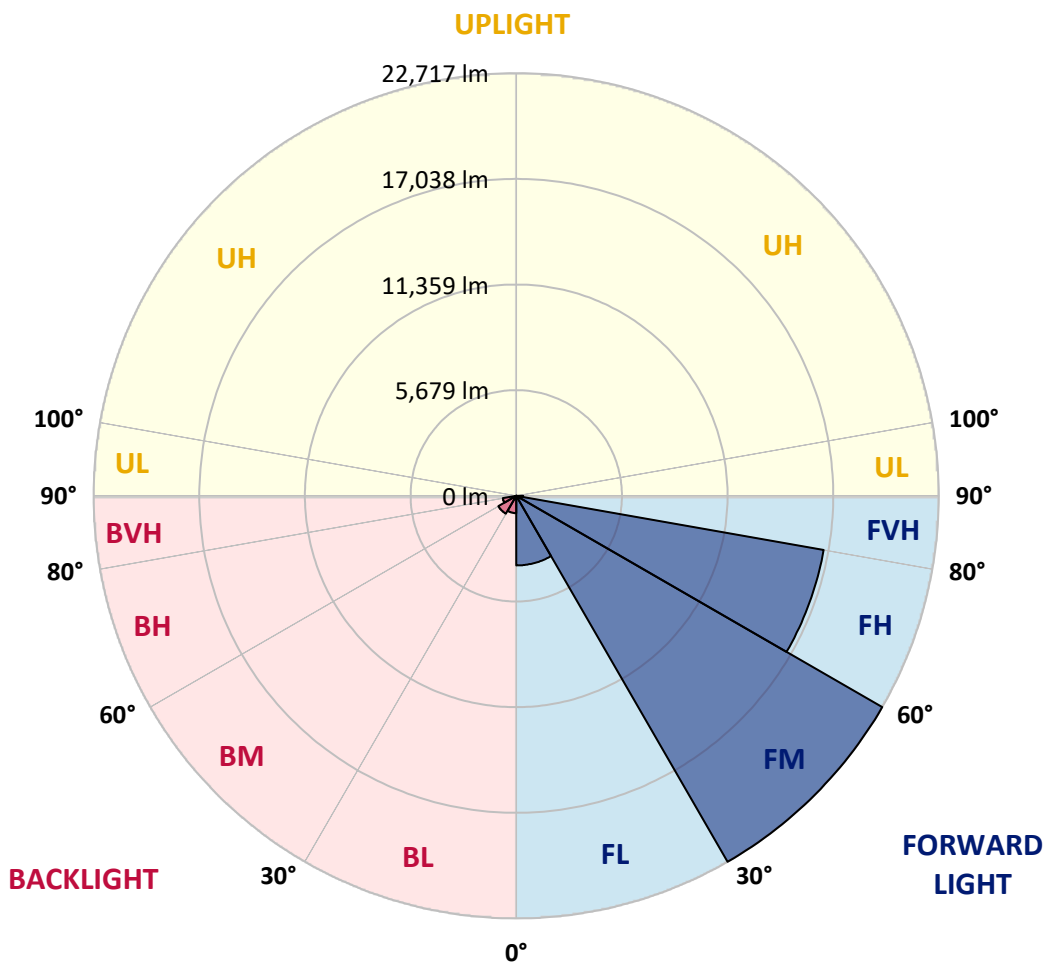


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3743.6	8.1			
FM (30°-60°)	22717.1	49.0			
FH (60°-80°)	16777.6	36.2			G5
FVH (80°-90°)	373.4	0.8			G3/500
BL (0°-30°)	930.8	2.0	B2/1000		
BM (30°-60°)	1109.6	2.4	B2/2500		
BH (60°-80°)	733.4	1.6	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9
2.5°	6214.2	6187.8	6176.7	6128.3	6044.5	5980.6	5857.2	5714.0	5687.6	5548.8	5379.0
5°	7020.7	6998.7	6983.3	6915.0	6829.0	6668.2	6443.4	6176.7	6126.0	5861.7	5522.3
7.5°	7582.7	7622.3	7622.3	7578.2	7470.3	7349.1	7073.6	6710.0	6646.1	6240.6	5714.0
10°	7911.0	7959.5	7997.0	8034.4	8018.9	7970.5	7710.5	7300.6	7223.5	6685.8	5936.6
12.5°	7941.8	7990.3	8096.1	8252.6	8404.6	8514.8	8351.7	7955.0	7866.9	7201.4	6201.0
15°	7769.9	7820.6	7983.7	8287.8	8655.8	8977.5	9030.4	8680.1	8589.7	7816.2	6531.5
17.5°	7470.3	7503.3	7736.9	8157.8	8735.1	9325.7	9645.2	9457.9	9374.2	8519.2	6899.5
20°	7247.7	7271.9	7476.9	7928.6	8686.7	9543.9	10227.0	10284.3	10196.2	9272.8	7298.4
22.5°	7628.9	7673.0	7679.6	7893.4	8554.5	9651.9	10738.2	11097.4	11031.3	10072.7	7690.7
25°	8671.2	8721.9	8554.5	8422.2	8666.8	9700.3	11176.8	11930.4	11877.5	10934.4	8085.1
27.5°	10048.5	10101.4	9885.5	9491.0	9255.2	9883.3	11566.8	12776.6	12774.4	11846.7	8510.3
30°	11401.5	11454.4	11234.1	10839.6	10297.5	10401.1	11904.0	13662.4	13675.7	12787.6	8962.1
32.5°	12820.7	12886.8	12659.8	12153.0	11586.7	11295.8	12377.8	14552.7	14627.6	13878.4	9471.1
35°	14433.7	14442.5	14123.0	13591.9	12939.7	12492.3	13138.0	15551.0	15729.5	15229.2	10116.8
37.5°	16015.9	16079.8	15817.6	14980.2	14380.9	13874.0	14268.4	16798.2	17051.6	16879.7	10960.8
40°	17188.3	17322.7	17285.2	16381.7	15813.2	15451.8	15672.2	18281.2	18603.0	18801.3	12025.2
42.5°	17924.3	18025.6	18197.5	17653.2	17137.6	17197.0	17329.3	20008.9	20405.6	20991.7	13248.2
45°	18768.3	18816.7	18960.0	18719.7	18371.6	18971.0	19087.8	21954.7	22371.2	23347.4	14605.6
47.5°	19799.6	19914.2	19953.7	19733.4	19574.8	20540.0	20782.4	23724.2	24308.2	25870.5	16042.4
50°	21112.9	21143.7	21212.1	21068.8	20910.2	21888.6	22302.8	25581.9	26113.0	28402.5	17459.3
52.5°	22397.6	22507.8	22745.8	22655.4	22591.5	23036.6	23658.0	27256.6	27849.4	30513.6	18874.0
55°	22767.9	22862.6	23684.5	24246.4	24766.5	24451.4	24953.8	28757.2	29398.5	32399.9	20235.8
57.5°	21289.2	21480.9	22904.4	24367.6	26525.0	26650.6	26734.3	30297.6	30872.7	33845.5	21652.8
60°	17551.8	17589.3	19925.2	22435.1	26234.2	28569.9	29334.6	31952.5	32435.1	35191.8	23349.6
62.5°	11163.6	11544.8	14107.5	17651.0	23157.9	28292.3	32479.2	34455.8	34632.1	36807.1	25782.3
65°	5317.4	5564.1	7410.7	10905.7	16774.0	24737.9	34649.8	38984.2	39063.6	40008.9	29032.7
67.5°	2944.1	3063.0	3942.3	5870.4	9806.1	17494.6	33772.7	44347.9	44422.8	43279.1	31884.2
69°	2302.8	2404.1	3096.1	4424.9	6648.4	12573.8	30562.0	45919.1	46141.6	44215.6	31985.5
70°	1954.6	2053.8	2666.4	3737.4	5346.0	9715.8	27203.7	45529.0	45764.8	44127.5	31229.8
72.5°	1196.6	1253.9	1776.1	2631.2	3583.1	4887.6	16776.1	38503.8	38902.7	40478.4	26840.1
75°	806.5	837.4	1110.6	1815.8	2562.8	2516.6	8715.3	27139.8	28003.6	31487.5	19823.8
77.5°	577.4	606.0	744.9	1174.5	1795.9	1661.5	3946.7	16866.5	17051.6	18885.1	10811.0
80°	328.4	354.8	526.7	698.6	1218.6	1108.4	1569.0	8056.4	8149.0	8098.3	3609.6
82.5°	171.9	193.9	288.7	460.6	782.3	725.0	652.3	2697.2	2710.4	2254.3	791.1
85°	33.1	39.7	143.3	315.1	403.3	315.1	266.6	632.4	645.7	570.8	196.1
87.5°	0.0	2.2	57.3	70.5	79.4	81.5	86.0	123.4	132.2	178.5	52.9
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°	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9	5279.9
2.5°	5304.1	5224.8	5072.7	4896.4	4759.8	4625.4	4519.6	4409.5	4369.8	4350.0	4347.7
5°	5357.0	5189.6	4867.8	4537.3	4266.2	4010.6	3827.7	3653.6	3572.1	3534.6	3519.2
7.5°	5445.2	5176.3	4658.5	4153.9	3763.8	3444.3	3190.8	3001.4	2906.6	2866.9	2851.5
10°	5548.8	5158.6	4413.9	3748.4	3250.4	2919.8	2668.6	2481.3	2377.7	2333.6	2311.6
12.5°	5670.0	5127.8	4131.8	3338.5	2811.8	2481.3	2177.2	1945.8	1826.8	1776.1	1751.9
15°	5819.8	5097.0	3836.5	2952.8	2426.2	2022.9	1690.2	1533.7	1509.5	1500.6	1502.9
17.5°	5967.4	5048.5	3514.8	2571.6	2020.7	1580.0	1410.4	1401.5	1405.9	1405.9	1405.9
20°	6099.6	4938.3	3164.4	2245.5	1635.1	1333.2	1297.9	1282.5	1271.5	1262.7	1251.6
22.5°	6203.2	4790.7	2827.2	1921.6	1335.4	1220.8	1165.7	1117.2	1077.6	1051.2	1037.9
25°	6273.7	4594.6	2518.7	1610.8	1201.0	1110.6	1011.5	930.0	868.2	830.8	815.4
27.5°	6326.6	4383.0	2243.3	1348.6	1108.4	982.8	852.8	755.9	692.0	658.9	645.7
30°	6364.1	4142.8	2000.9	1185.6	1004.9	848.4	709.6	614.8	568.5	550.9	542.1
32.5°	6399.4	3876.2	1771.7	1108.4	907.9	725.0	595.0	522.2	493.6	471.5	464.9
35°	6487.5	3629.4	1553.5	1026.8	808.8	619.2	511.2	458.3	429.7	416.5	412.1
37.5°	6696.8	3446.4	1344.2	943.2	709.6	535.5	447.3	409.9	383.4	370.2	365.8
40°	7033.9	3353.9	1167.9	852.8	612.6	471.5	405.5	370.2	341.6	321.8	317.3
42.5°	7529.8	3367.2	1044.5	762.5	535.5	420.9	365.8	323.9	293.1	275.5	271.1
45°	8131.4	3464.1	958.6	674.3	471.5	381.2	321.8	277.7	249.0	233.5	229.2
47.5°	8783.7	3620.6	888.0	595.0	420.9	343.7	277.7	231.4	207.2	193.9	191.7
50°	9471.1	3772.6	815.4	517.8	376.8	306.3	233.5	191.7	171.9	160.9	156.5
52.5°	10167.5	3948.9	749.2	447.3	339.4	262.2	193.9	156.5	141.0	132.2	127.8
55°	10916.7	4081.1	685.3	392.3	301.9	222.5	160.9	130.0	116.8	105.7	103.6
57.5°	11798.1	4286.1	619.2	339.4	257.9	185.1	132.2	103.6	92.6	81.5	79.4
60°	12988.1	4526.2	548.7	299.7	211.6	152.0	108.0	83.7	70.5	61.7	59.5
62.5°	14557.1	4792.9	460.6	262.2	171.9	123.4	86.0	66.1	50.7	39.7	39.7
65°	16547.0	5227.0	376.8	220.4	141.0	101.4	66.1	48.4	28.7	17.6	17.6
67.5°	17708.3	5301.9	304.1	180.7	114.6	86.0	55.1	33.1	8.8	2.2	0.0
69°	17335.9	4867.8	257.9	154.3	99.1	81.5	50.7	24.2	4.4	0.0	0.0
70°	16635.1	4451.3	227.0	136.7	90.4	77.1	48.4	17.6	4.4	0.0	0.0
72.5°	13746.2	3168.8	171.9	101.4	66.1	68.3	44.1	11.0	4.4	0.0	0.0
75°	10013.3	1926.0	123.4	70.5	41.8	50.7	30.8	4.4	2.2	0.0	0.0
77.5°	5570.7	907.9	77.1	39.7	26.5	30.8	15.5	0.0	0.0	0.0	0.0
80°	1809.2	246.8	35.2	22.1	15.5	17.6	6.6	0.0	0.0	0.0	0.0
82.5°	335.0	70.5	19.8	11.0	4.4	4.4	0.0	0.0	0.0	0.0	0.0
85°	72.8	28.7	11.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	24.2	8.8	2.2	0.0	0.0	0.0	0.0	0.0	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)