

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: P324912

Luminaire Tested: **GLEON-SA8A-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA8A-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 22476 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

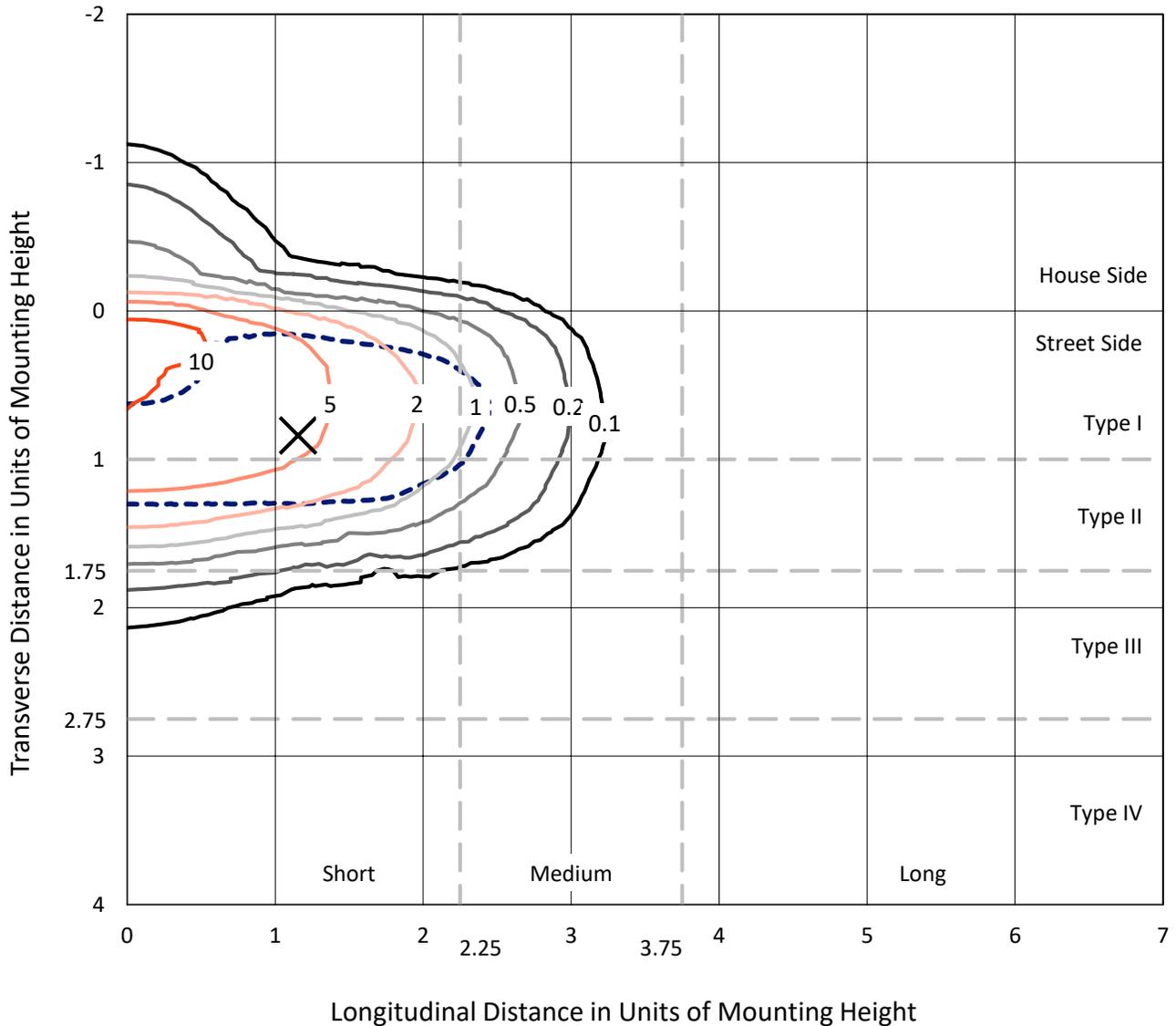
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

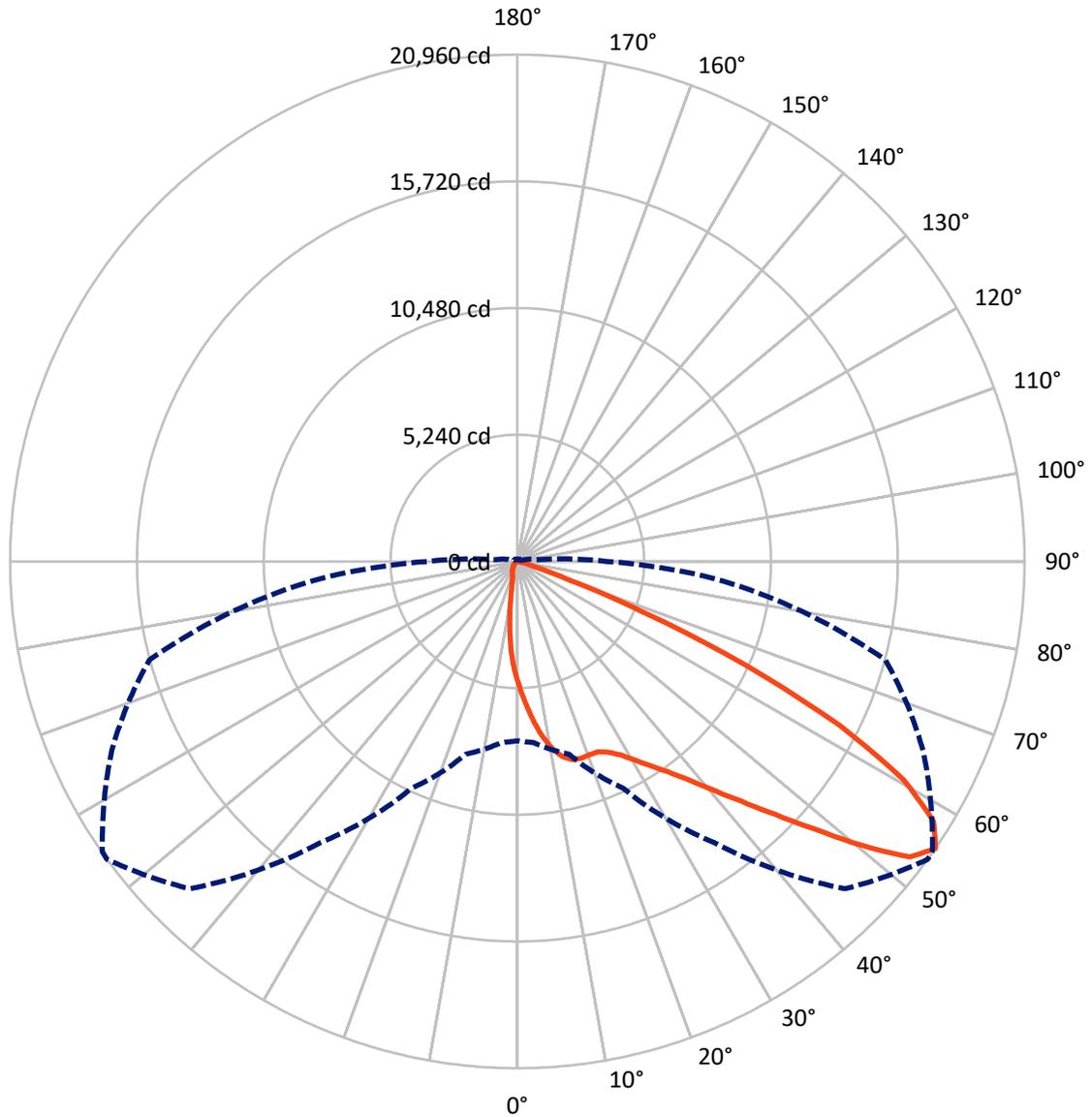
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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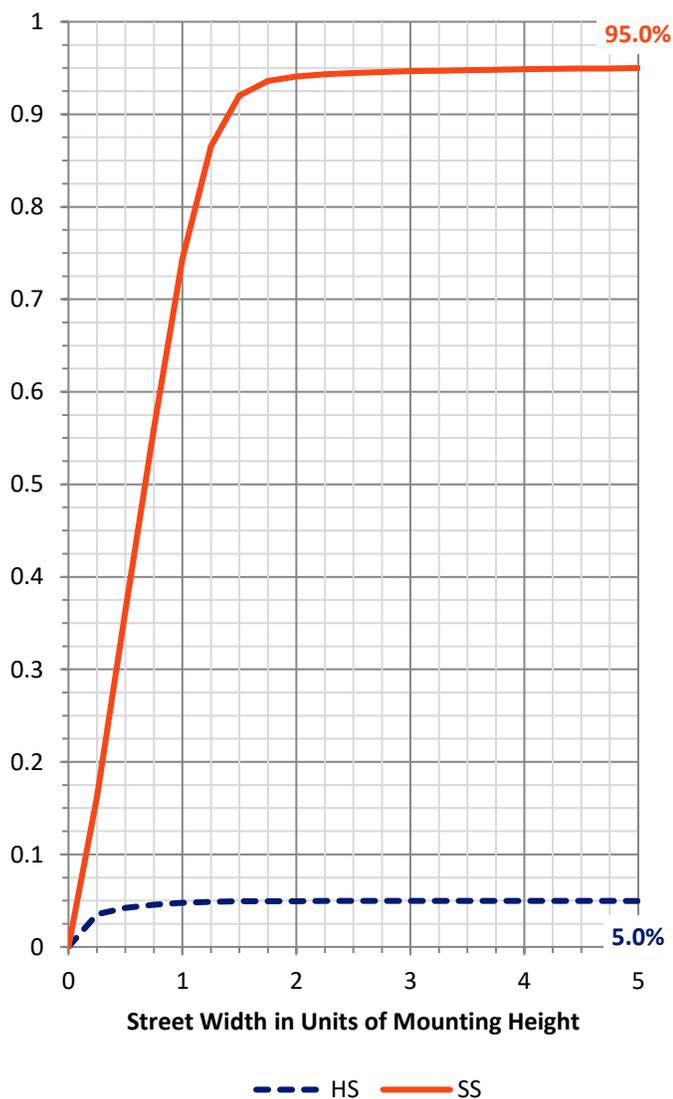
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1121.4	0.0	1121.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	21354.6	0.0	21354.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	22476.0	0.0	22476.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	2.1
10°-20°	1271.3	5.7
20°-30°	2170.5	9.7
30°-40°	3483.3	15.5
40°-50°	5566.4	24.8
50°-60°	5964.5	26.5
60°-70°	3062.4	13.6
70°-80°	463.9	2.1
80°-90°	30.2	0.1
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°	22476.0	100.0
0°-180°	22476.0	100.0

Coefficient of Utilization

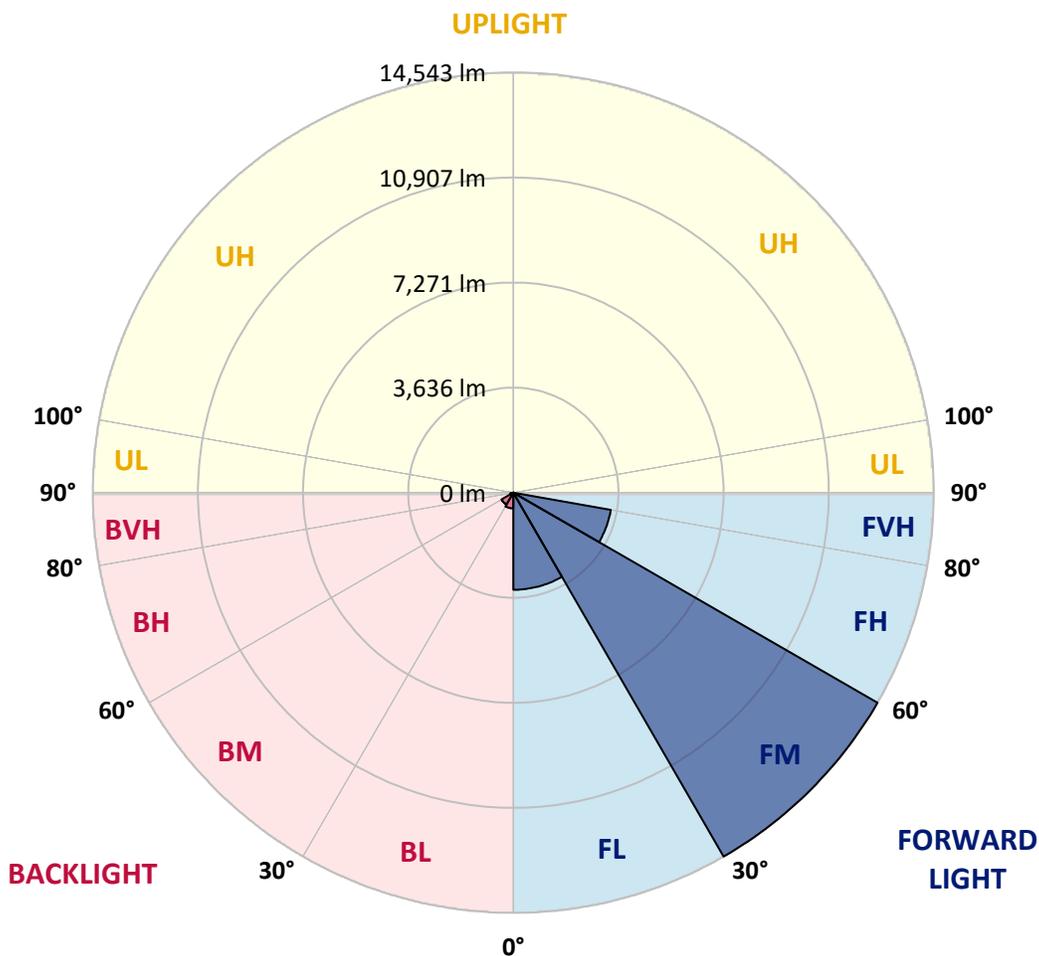


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3359.8	14.9			
FM (30°-60°)	14543.0	64.7			
FH (60°-80°)	3422.9	15.2			G2/5000
FVH (80°-90°)	29.0	0.1			G1/100
BL (0°-30°)	545.6	2.4	B2/1000		
BM (30°-60°)	471.2	2.1	B1/1000		
BH (60°-80°)	103.3	0.5	B0/110		G0/110
BVH (80°-90°)	1.2	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7
2.5°	6316.9	6222.8	6225.7	6183.0	6026.7	5904.4	5777.2	5747.1	5549.1	5341.4	5141.5
5°	7408.9	7340.0	7323.5	7240.9	7023.5	6793.5	6546.9	6489.7	6102.4	5677.3	5258.9
7.5°	7969.9	7970.9	7957.3	7927.2	7791.3	7568.1	7267.2	7207.0	6679.9	6042.2	5381.2
10°	7806.8	7843.7	7919.4	8019.4	8123.3	8095.1	7869.0	7814.6	7241.9	6428.5	5517.1
12.5°	7426.3	7431.2	7515.6	7679.7	7978.6	8285.4	8289.2	8270.8	7778.7	6832.3	5666.6
15°	7237.1	7255.5	7286.6	7392.4	7675.8	8166.9	8518.3	8544.5	8270.8	7261.3	5825.8
17.5°	7361.3	7387.5	7361.3	7373.9	7538.0	7979.6	8558.1	8625.1	8700.8	7685.5	5976.2
20°	7698.1	7722.4	7675.8	7624.4	7656.4	7925.2	8530.0	8620.2	9037.6	8062.1	6102.4
22.5°	8152.4	8162.1	8091.2	8006.8	7983.5	8109.7	8553.3	8646.4	9307.4	8402.8	6182.0
25°	8652.3	8661.0	8572.7	8475.6	8420.3	8471.7	8744.5	8814.4	9545.2	8728.0	6227.6
27.5°	9196.8	9204.5	9093.9	8974.5	8910.4	8912.4	9059.9	9134.7	9798.6	9098.7	6264.5
30°	9772.4	9768.5	9666.6	9500.6	9419.1	9417.1	9514.2	9589.9	10165.5	9574.4	6315.0
32.5°	10418.8	10411.0	10266.4	10060.6	9968.4	9982.0	10068.4	10112.1	10620.7	10081.0	6405.2
35°	11270.1	11247.7	11029.3	10774.1	10604.2	10599.4	10672.2	10707.1	11201.1	10694.5	6555.7
37.5°	12374.6	12354.3	12058.2	11687.4	11448.7	11359.4	11445.7	11490.4	12029.1	11481.7	6797.4
40°	13463.7	13443.3	13267.6	12927.9	12560.0	12345.5	12413.5	12461.0	13062.8	12436.8	7102.1
42.5°	14215.0	14232.4	14293.6	14321.7	13977.2	13526.8	13557.9	13607.4	14149.0	13457.9	7450.6
45°	14413.0	14450.8	14796.4	15474.9	15604.0	15252.6	14927.4	14954.6	15252.6	14479.0	7799.1
47.5°	13818.0	13887.9	14554.7	15816.5	16909.5	17157.9	16542.6	16506.6	16311.5	15305.0	8046.6
50°	12465.9	12529.9	13393.8	15260.4	17305.5	18976.9	18478.0	18372.2	17240.4	15799.1	8133.9
52.5°	10509.1	10586.7	11288.5	13509.3	16559.1	19788.4	20310.6	20222.2	17921.8	15837.9	8148.5
55°	7421.5	7515.6	8258.2	10353.8	14193.6	19142.9	20959.9	20933.7	18487.7	15735.0	8179.6
57.5°	4170.8	4238.8	5039.5	6637.2	10395.5	16673.6	20281.5	20455.2	18829.4	15556.4	8226.1
60°	1852.0	1870.4	2284.9	3304.0	6085.9	12742.5	18339.2	18632.3	18536.2	15317.6	8304.8
62.5°	1026.9	1011.4	1011.4	1373.5	2645.0	7888.4	14954.6	15438.9	17285.1	15035.2	8308.7
65°	804.7	790.1	748.4	754.2	1007.5	3501.1	10355.7	11216.7	14909.0	14207.2	8029.1
67.5°	682.4	669.7	628.0	611.5	626.1	1155.1	5689.9	6583.8	11312.8	12055.3	6954.6
70°	576.6	567.8	546.5	526.1	489.2	570.7	2177.1	2784.8	6971.1	8019.4	4747.4
72.5°	464.0	460.1	467.8	450.4	405.7	380.5	744.5	901.7	3131.3	3578.7	1955.8
75°	399.9	398.0	401.8	384.4	333.9	265.0	378.5	413.5	883.3	875.5	396.0
77.5°	260.1	263.0	332.9	325.2	287.3	176.7	196.1	211.6	267.9	200.9	120.4
80°	166.0	164.0	168.9	269.8	258.2	134.9	98.0	102.9	129.1	99.0	58.2
82.5°	100.9	99.0	110.7	126.2	130.1	94.2	60.2	61.2	80.6	64.1	31.1
85°	8.7	11.6	67.0	62.1	44.6	29.1	29.1	31.1	42.7	37.9	17.5
87.5°	0.0	0.0	11.6	17.5	9.7	10.7	10.7	11.6	16.5	16.5	8.7
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°	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7	5033.7
2.5°	5037.6	4936.7	4732.8	4536.8	4370.8	4210.6	4028.1	3847.6	3763.2	3729.2	3694.2
5°	5046.3	4838.6	4418.3	3995.1	3556.4	3161.4	2824.6	2479.0	2306.2	2230.5	2195.6
7.5°	5058.0	4741.6	4062.1	3351.6	2645.0	2109.2	1641.3	1340.4	1210.4	1190.0	1139.5
10°	5059.9	4624.1	3648.6	2641.1	1773.4	1271.5	978.4	823.1	765.8	756.1	739.6
12.5°	5063.8	4485.3	3189.5	1955.8	1182.2	850.3	707.6	656.2	640.6	639.6	639.6
15°	5075.5	4339.7	2712.9	1409.4	849.3	673.6	621.2	600.8	595.0	597.9	596.9
17.5°	5075.5	4167.9	2245.1	1050.2	686.2	605.7	576.6	563.0	561.0	563.9	564.9
20°	5038.6	3959.2	1816.1	817.3	608.6	562.0	535.8	523.2	518.3	520.3	521.2
22.5°	4950.2	3703.0	1466.6	676.5	557.1	522.2	494.1	474.6	466.9	467.8	467.8
25°	4812.4	3399.2	1147.3	585.3	515.4	479.5	446.5	424.2	419.3	418.3	420.3
27.5°	4635.8	3063.3	913.4	515.4	465.9	431.9	398.9	380.5	376.6	377.6	378.5
30°	4462.0	2714.9	720.2	456.2	410.6	378.5	353.3	344.6	344.6	347.5	348.5
32.5°	4302.8	2380.0	569.8	404.8	361.1	332.0	317.4	316.4	321.3	323.2	324.2
35°	4166.0	2070.4	471.7	365.0	322.3	297.0	292.2	296.0	301.9	305.8	306.7
37.5°	4068.9	1793.7	412.5	332.0	292.2	271.8	270.8	278.6	286.3	295.1	297.0
40°	4028.1	1559.8	371.8	302.8	267.9	252.4	249.5	260.1	274.7	287.3	289.2
42.5°	3994.2	1368.6	336.8	274.7	248.5	226.2	225.2	238.8	256.2	268.9	271.8
45°	3965.1	1215.2	304.8	244.6	223.2	194.1	197.0	214.5	228.1	241.7	244.6
47.5°	3904.9	1089.1	269.8	212.6	184.4	166.0	171.8	187.3	198.0	218.4	221.3
50°	3797.1	986.2	233.9	173.7	150.4	143.7	152.4	163.1	176.7	194.1	196.1
52.5°	3724.3	908.5	202.9	145.6	124.2	126.2	134.9	138.8	146.6	153.4	151.4
55°	3682.6	865.8	177.6	126.2	105.8	111.6	113.6	108.7	104.8	98.0	95.1
57.5°	3677.7	827.0	158.2	109.7	93.2	96.1	89.3	72.8	59.2	51.4	49.5
60°	3670.0	779.4	142.7	92.2	82.5	78.6	64.1	39.8	28.1	26.2	26.2
62.5°	3585.5	705.7	131.0	77.7	69.9	59.2	36.9	18.4	15.5	16.5	16.5
65°	3316.7	602.8	119.4	63.1	55.3	42.7	18.4	10.7	5.8	6.8	6.8
67.5°	2819.7	480.5	106.8	48.5	41.7	27.2	10.7	4.9	0.0	0.0	0.0
70°	1887.9	298.0	90.3	34.0	27.2	16.5	7.8	1.0	0.0	0.0	0.0
72.5°	724.1	161.1	72.8	20.4	17.5	11.6	4.9	0.0	0.0	0.0	0.0
75°	163.1	105.8	50.5	14.6	12.6	7.8	1.9	0.0	0.0	0.0	0.0
77.5°	62.1	76.7	29.1	9.7	8.7	4.9	0.0	0.0	0.0	0.0	0.0
80°	30.1	45.6	13.6	5.8	4.9	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	17.5	5.8	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	8.7	2.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.9	2.9	1.0	1.0	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)