

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: P382614

Luminaire Tested: **GLEON-SA0A-735-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382614
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-SA0A-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 3500K, 615mA 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: 30567.8 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

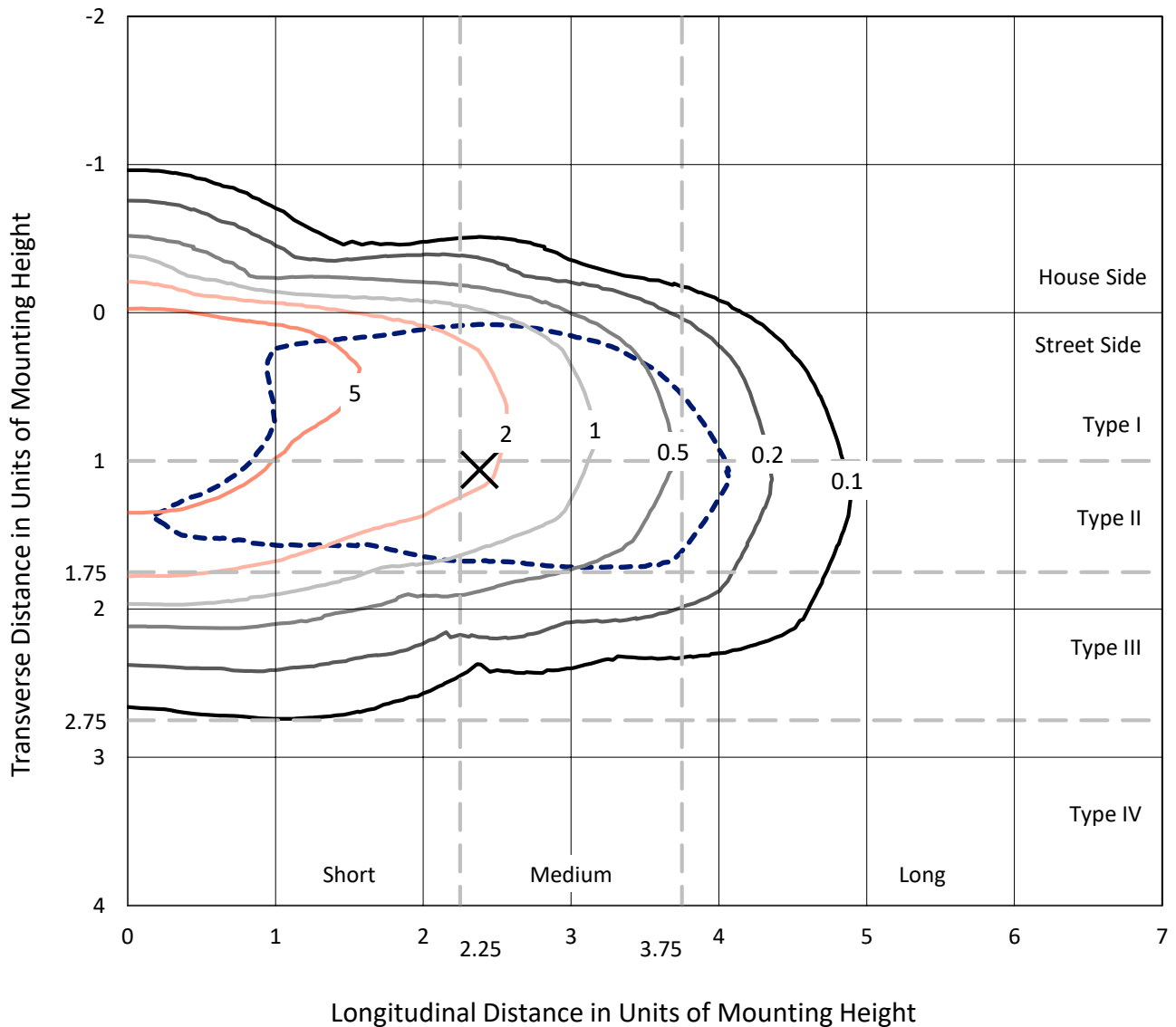
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

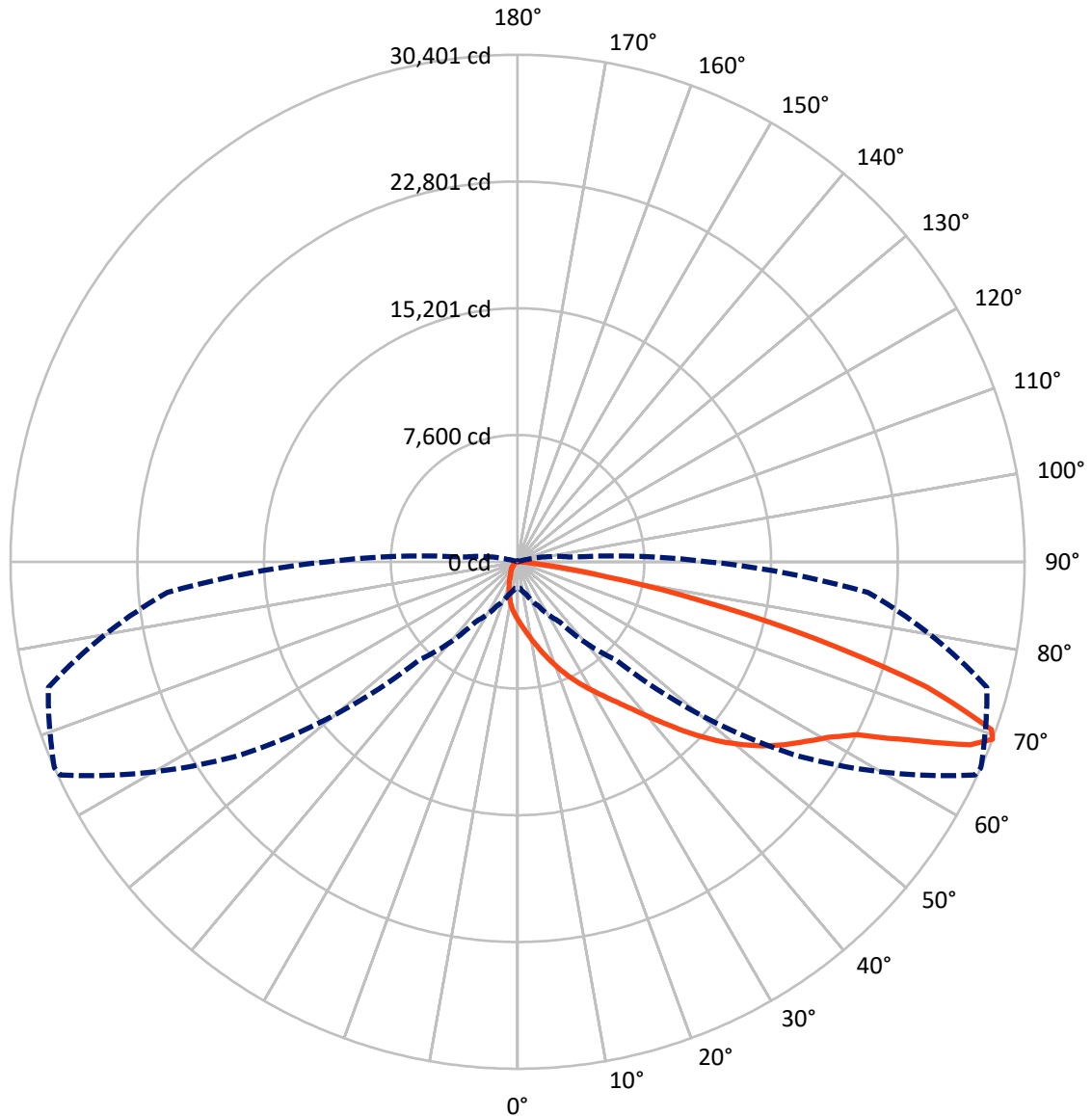
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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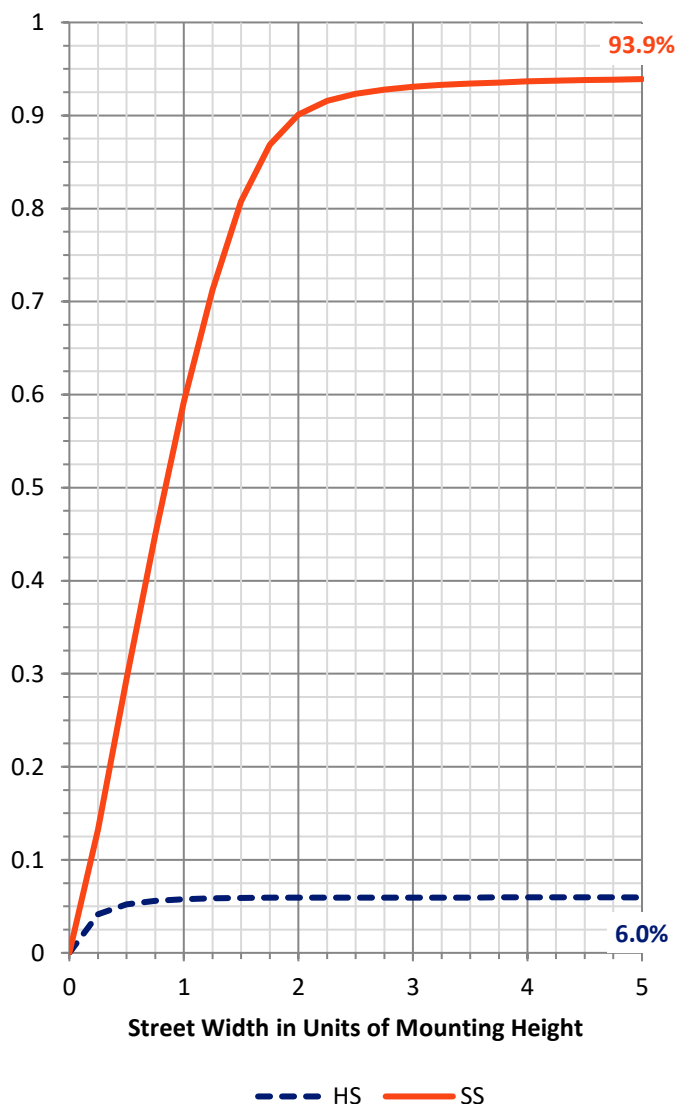
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1833.7	0.0	1833.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	28734.2	0.0	28734.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	30567.8	0.0	30567.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.3	1.1
10°-20°	1000.8	3.3
20°-30°	1742.7	5.7
30°-40°	3057.6	10.0
40°-50°	5118.0	16.7
50°-60°	7522.9	24.6
60°-70°	7724.2	25.3
70°-80°	3813.2	12.5
80°-90°	252.1	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°	30567.8	100.0
0°-180°	30567.8	100.0

Coefficient of Utilization

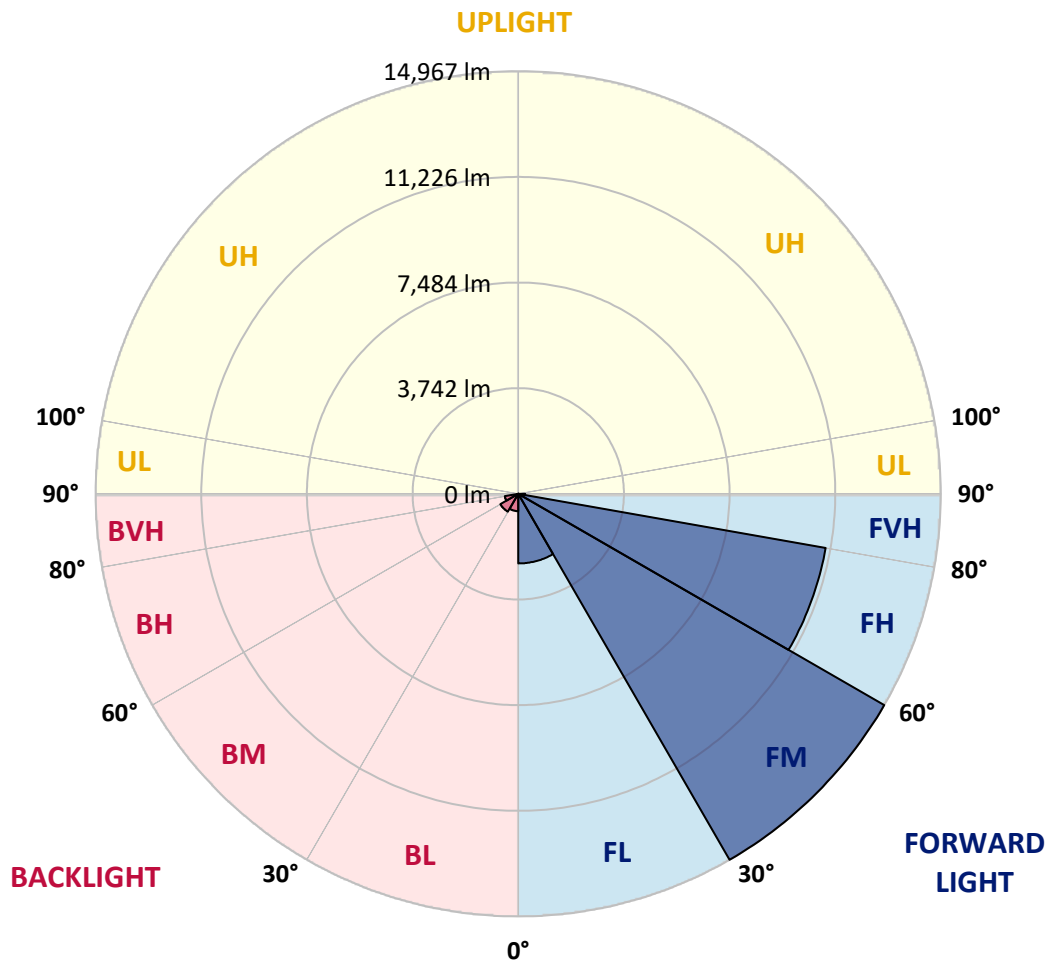


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2466.5	8.1			
FM (30°-60°)	14967.5	49.0			
FH (60°-80°)	11054.1	36.2			G4/12000
FVH (80°-90°)	246.0	0.8			G3/500
BL (0°-30°)	613.2	2.0	B2/1000		
BM (30°-60°)	731.1	2.4	B1/1000		
BH (60°-80°)	483.2	1.6	B1/500		G1/500
BVH (80°-90°)	6.1	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7
2.5°	4094.3	4076.9	4069.7	4037.7	3982.6	3940.4	3859.1	3764.8	3747.3	3655.9	3544.1
5°	4625.7	4611.2	4601.0	4556.0	4499.4	4393.4	4245.3	4069.7	4036.2	3862.0	3638.4
7.5°	4995.9	5022.1	5022.1	4993.0	4921.9	4842.0	4660.5	4421.0	4378.9	4111.8	3764.8
10°	5212.3	5244.2	5268.9	5293.6	5283.4	5251.5	5080.1	4810.0	4759.3	4405.0	3911.4
12.5°	5232.6	5264.5	5334.2	5437.4	5537.5	5610.1	5502.7	5241.3	5183.2	4744.7	4085.6
15°	5119.3	5152.8	5260.2	5460.5	5703.0	5915.0	5949.8	5719.0	5659.4	5149.9	4303.4
17.5°	4921.9	4943.6	5097.5	5374.8	5755.3	6144.4	6354.9	6231.5	6176.3	5612.9	4545.9
20°	4775.2	4791.2	4926.2	5223.8	5723.3	6288.1	6738.2	6776.0	6717.9	6109.6	4808.6
22.5°	5026.4	5055.4	5059.8	5200.6	5636.2	6359.2	7075.0	7311.7	7268.1	6636.5	5067.1
25°	5713.2	5746.5	5636.2	5549.1	5710.3	6391.2	7364.0	7860.5	7825.7	7204.2	5327.0
27.5°	6620.6	6655.4	6513.2	6253.3	6097.9	6511.7	7620.9	8418.0	8416.5	7805.3	5607.2
30°	7512.1	7546.9	7401.7	7141.8	6784.6	6852.9	7843.1	9001.6	9010.4	8425.3	5904.8
32.5°	8447.1	8490.6	8341.1	8007.1	7634.0	7442.3	8155.2	9588.2	9637.6	9144.0	6240.2
35°	9509.8	9515.7	9305.1	8955.2	8525.4	8230.7	8656.1	10245.9	10363.6	10034.0	6665.6
37.5°	10552.3	10594.4	10421.6	9869.9	9475.0	9141.1	9401.0	11067.7	11234.7	11121.5	7221.6
40°	11324.7	11413.2	11388.5	10793.3	10418.7	10180.6	10325.8	12044.8	12256.8	12387.4	7922.9
42.5°	11809.6	11876.4	11989.7	11631.0	11291.3	11330.5	11417.6	13183.1	13444.5	13830.7	8728.7
45°	12365.7	12397.6	12492.1	12333.8	12104.3	12499.2	12576.3	14465.2	14739.5	15382.7	9623.1
47.5°	13045.2	13120.7	13146.8	13001.6	12897.1	13533.0	13692.7	15631.0	16015.7	17045.1	10569.7
50°	13910.5	13930.8	13975.8	13881.5	13776.9	14421.6	14694.5	16855.0	17204.8	18713.3	11503.3
52.5°	14756.9	14829.6	14986.4	14926.8	14884.7	15178.0	15587.4	17958.4	18348.9	20104.2	12435.4
55°	15000.9	15063.3	15604.8	15975.1	16317.7	16110.1	16441.2	18947.1	19369.6	21347.1	13332.7
57.5°	14026.7	14153.0	15090.9	16054.9	17476.3	17559.1	17614.3	19961.9	20340.9	22299.5	14266.2
60°	11564.2	11588.9	13127.9	14781.6	17284.7	18823.7	19327.5	21052.3	21370.3	23186.6	15384.1
62.5°	7355.2	7606.5	9295.0	11629.6	15257.8	18640.7	21399.3	22701.6	22817.8	24250.8	16987.0
65°	3503.4	3666.0	4882.7	7185.4	11051.8	16298.8	22829.4	25685.3	25737.5	26360.4	19128.6
67.5°	1939.8	2018.1	2597.4	3867.8	6460.8	11526.5	22251.6	29219.2	29268.6	28515.0	21007.3
69°	1517.2	1584.0	2039.9	2915.4	4380.3	8284.4	20136.1	30254.3	30401.0	29132.0	21074.1
70°	1287.9	1353.2	1756.8	2462.4	3522.3	6401.3	17923.5	29997.4	30152.7	29074.0	20576.1
72.5°	788.4	826.1	1170.2	1733.5	2360.7	3220.3	11053.2	25368.7	25631.5	26669.6	17683.9
75°	531.4	551.8	731.7	1196.4	1688.5	1658.1	5742.2	17881.4	18450.5	20745.9	13061.1
77.5°	380.4	399.3	490.7	773.8	1183.3	1094.8	2600.3	11112.7	11234.7	12442.7	7123.0
80°	216.3	233.7	347.0	460.3	802.9	730.3	1033.7	5308.1	5369.1	5335.7	2378.1
82.5°	113.3	127.8	190.2	303.4	515.4	477.7	429.7	1777.1	1785.8	1485.3	521.2
85°	21.8	26.2	94.4	207.6	265.7	207.6	175.7	416.7	425.4	376.1	129.2
87.5°	0.0	1.5	37.7	46.5	52.3	53.8	56.6	81.3	87.1	117.6	34.8
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°	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7	3478.7
2.5°	3494.7	3442.4	3342.2	3226.0	3136.1	3047.5	2977.8	2905.2	2879.0	2866.0	2864.6
5°	3529.5	3419.2	3207.2	2989.4	2810.9	2642.4	2521.9	2407.2	2353.5	2328.8	2318.6
7.5°	3587.6	3410.5	3069.3	2736.8	2479.8	2269.2	2102.3	1977.5	1915.1	1888.9	1878.7
10°	3655.9	3398.8	2908.1	2469.6	2141.5	1923.7	1758.2	1634.9	1566.6	1537.5	1523.0
12.5°	3735.7	3378.5	2722.3	2199.6	1852.6	1634.9	1434.5	1282.0	1203.7	1170.2	1154.3
15°	3834.4	3358.2	2527.8	1945.5	1598.5	1332.9	1113.6	1010.5	994.5	988.7	990.1
17.5°	3931.7	3326.3	2315.7	1694.4	1331.4	1041.0	929.2	923.4	926.3	926.3	926.3
20°	4018.8	3253.7	2084.9	1479.5	1077.3	878.4	855.2	845.0	837.7	832.0	824.7
22.5°	4087.1	3156.4	1862.7	1266.1	879.8	804.3	768.1	736.1	709.9	692.5	683.8
25°	4133.6	3027.2	1659.5	1061.3	791.3	731.7	666.4	612.7	572.1	547.4	537.2
27.5°	4168.4	2887.8	1478.0	888.5	730.3	647.5	561.9	498.0	455.9	434.1	425.4
30°	4193.1	2729.5	1318.3	781.1	662.1	559.0	467.5	405.0	374.6	362.9	357.2
32.5°	4216.3	2553.8	1167.3	730.3	598.1	477.7	392.0	344.1	325.2	310.7	306.4
35°	4274.3	2391.3	1023.6	676.6	532.8	408.0	336.8	302.0	283.1	274.4	271.5
37.5°	4412.3	2270.7	885.6	621.4	467.5	352.8	294.7	270.1	252.6	243.9	241.0
40°	4634.4	2209.7	769.5	561.9	403.6	310.7	267.2	243.9	225.1	212.0	209.0
42.5°	4961.0	2218.5	688.2	502.4	352.8	277.3	241.0	213.4	193.1	181.5	178.6
45°	5357.4	2282.4	631.6	444.3	310.7	251.1	212.0	183.0	164.0	153.9	151.0
47.5°	5787.2	2385.4	585.1	392.0	277.3	226.5	183.0	152.5	136.5	127.8	126.3
50°	6240.2	2485.6	537.2	341.2	248.3	201.8	153.9	126.3	113.3	106.0	103.1
52.5°	6699.0	2601.8	493.6	294.7	223.6	172.8	127.8	103.1	92.9	87.1	84.2
55°	7192.7	2688.9	451.5	258.4	198.9	146.6	106.0	85.7	76.9	69.7	68.3
57.5°	7773.4	2823.9	408.0	223.6	169.9	121.9	87.1	68.3	61.0	53.8	52.3
60°	8557.4	2982.2	361.5	197.5	139.4	100.1	71.2	55.1	46.5	40.6	39.2
62.5°	9591.1	3157.9	303.4	172.8	113.3	81.3	56.6	43.6	33.3	26.2	26.2
65°	10902.2	3443.8	248.3	145.2	92.9	66.8	43.6	32.0	18.9	11.6	11.6
67.5°	11667.4	3493.2	200.4	119.1	75.5	56.6	36.3	21.8	5.8	1.5	0.0
69°	11422.0	3207.2	169.9	101.6	65.3	53.8	33.3	15.9	2.9	0.0	0.0
70°	10960.3	2932.8	149.5	90.0	59.5	50.9	32.0	11.6	2.9	0.0	0.0
72.5°	9056.9	2087.8	113.3	66.8	43.6	45.0	29.1	7.3	2.9	0.0	0.0
75°	6597.4	1269.0	81.3	46.5	27.6	33.3	20.3	2.9	1.5	0.0	0.0
77.5°	3670.4	598.1	50.9	26.2	17.4	20.3	10.2	0.0	0.0	0.0	0.0
80°	1192.0	162.6	23.2	14.5	10.2	11.6	4.4	0.0	0.0	0.0	0.0
82.5°	220.7	46.5	13.0	7.3	2.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	47.9	18.9	7.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.9	5.8	1.5	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)