

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: P383456

Luminaire Tested: **GLEON-SA7C-735-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383456  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7C-735-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1050mA 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: 37617.8 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G4

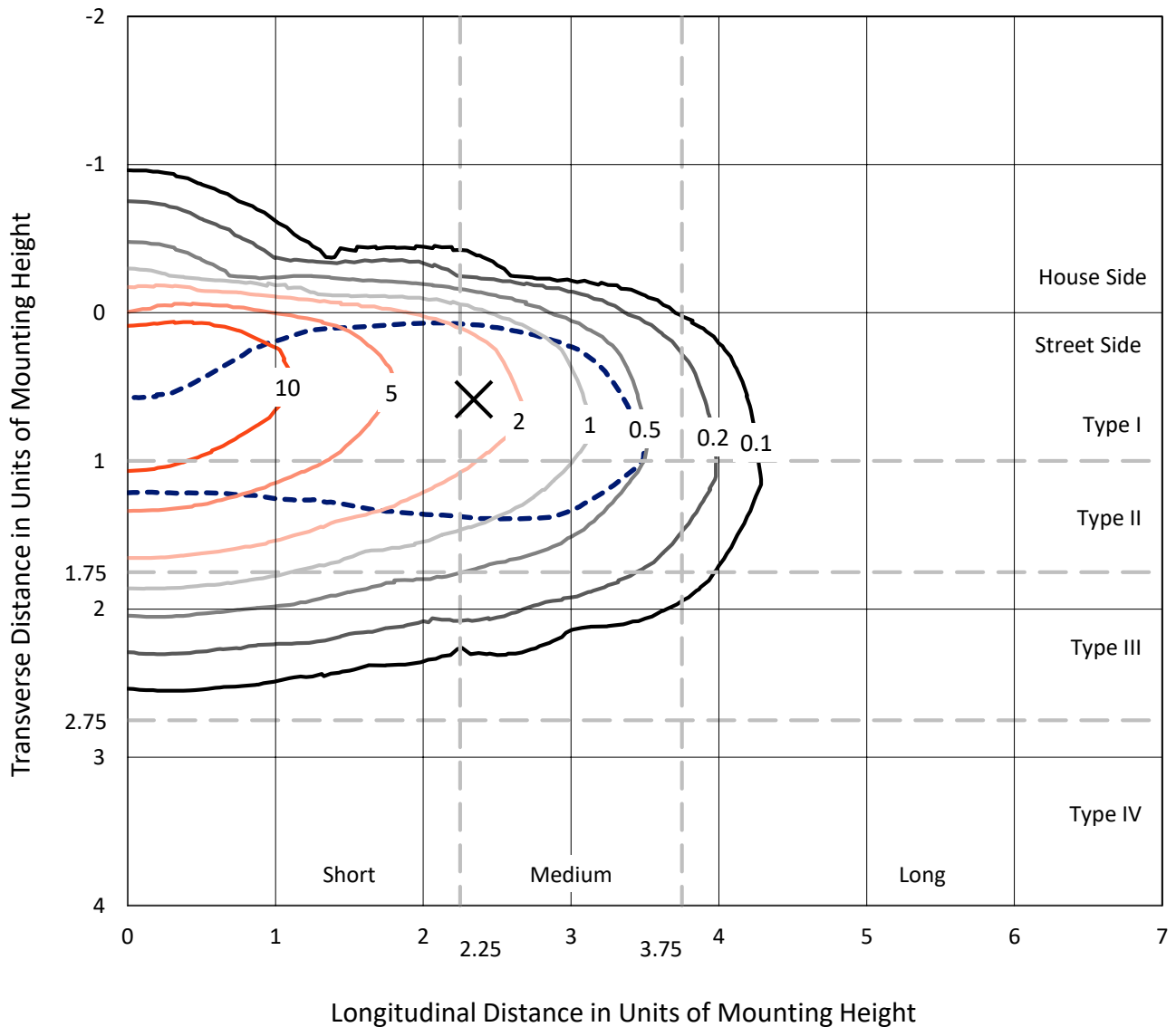
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

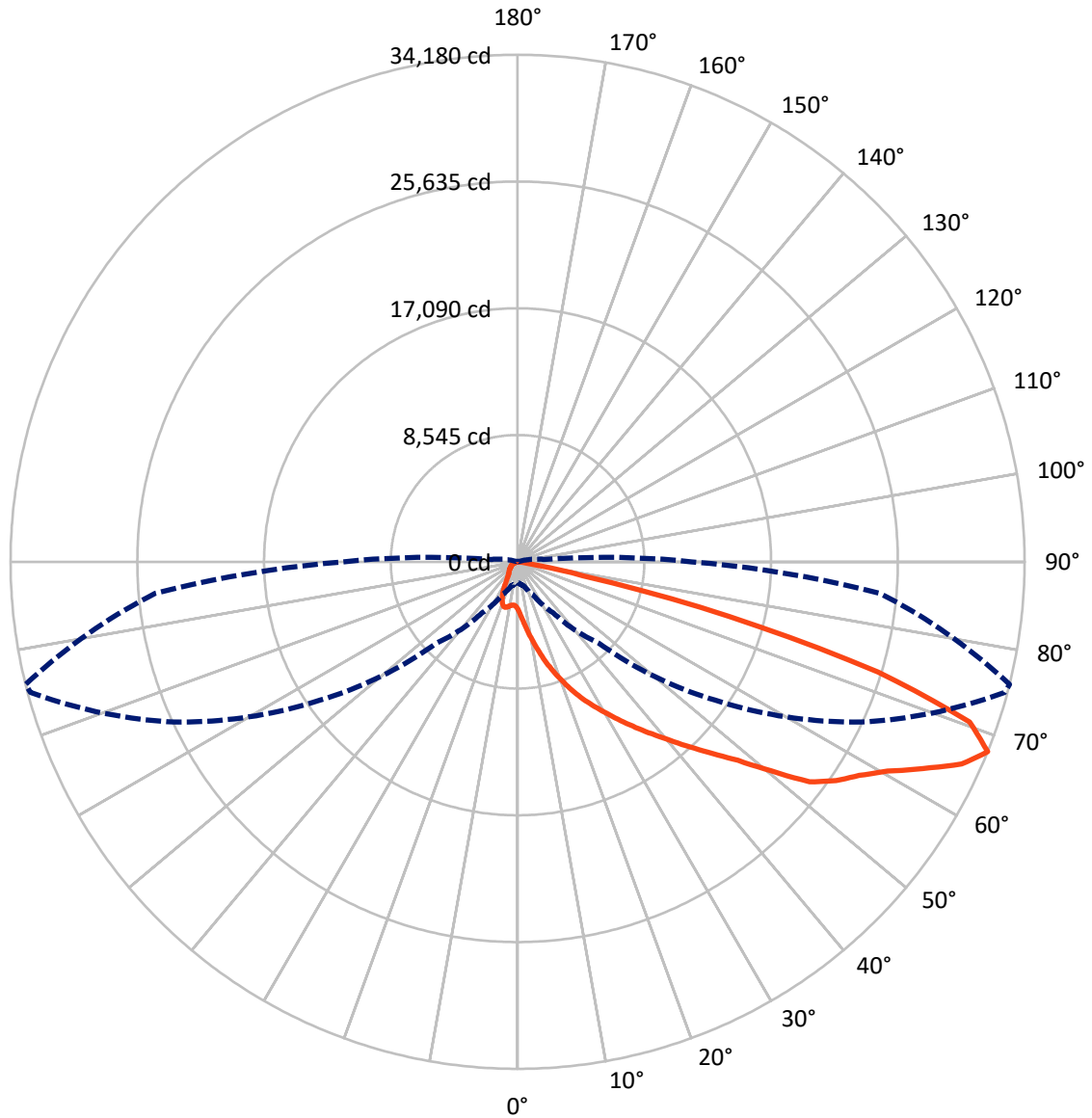
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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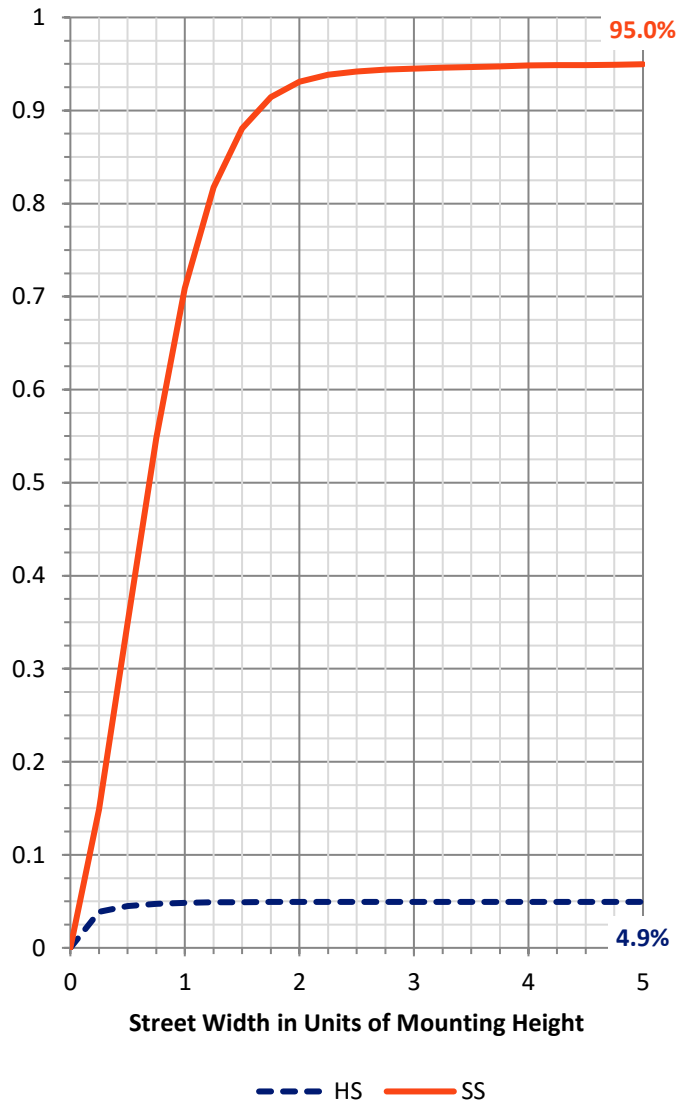
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1868.0	0.0	1868.0
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	35749.8	0.0	35749.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	37617.8	0.0	37617.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.8	1.1
10°-20°	1573.0	4.2
20°-30°	3200.5	8.5
30°-40°	5555.1	14.8
40°-50°	7848.6	20.9
50°-60°	8900.7	23.7
60°-70°	7382.3	19.6
70°-80°	2674.1	7.1
80°-90°	86.7	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°	37617.8	100.0
0°-180°	37617.8	100.0

**Coefficient of Utilization**

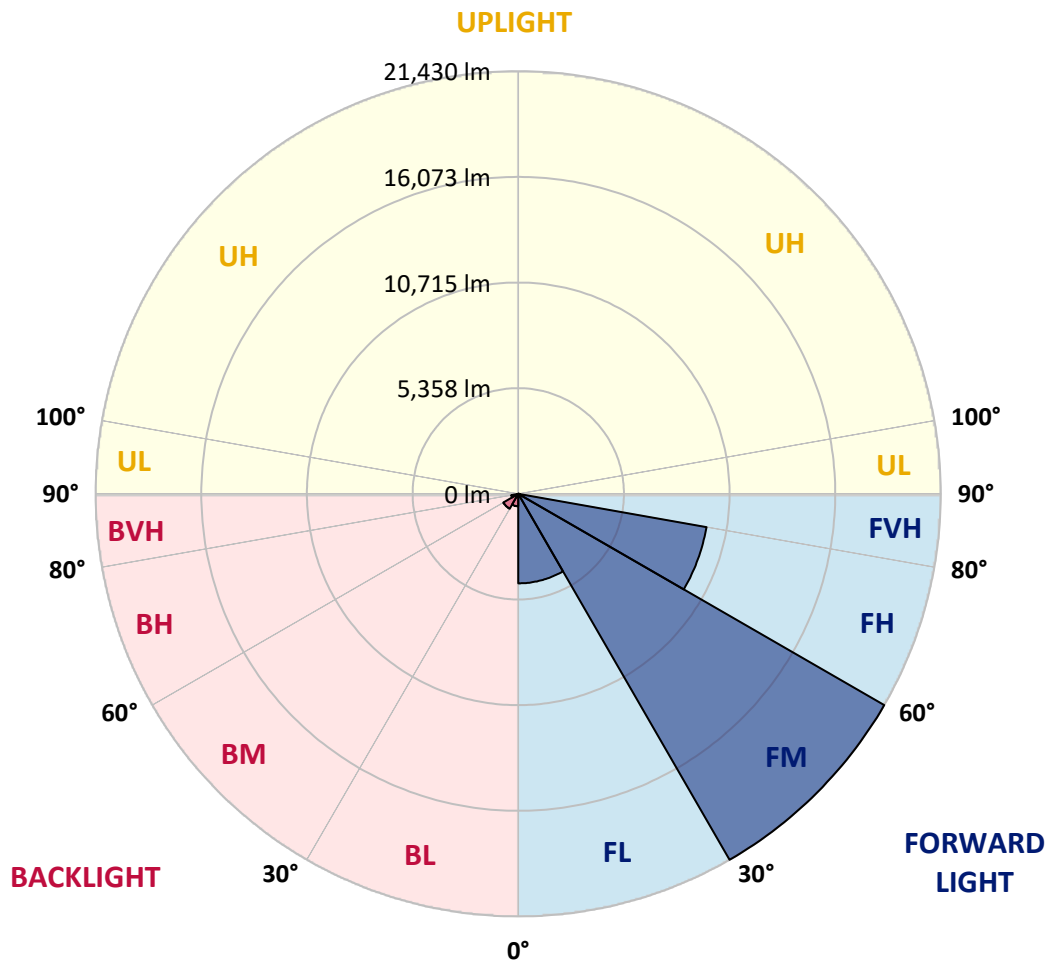


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4540.3	12.1			
FM (30°-60°)	21430.1	57.0			
FH (60°-80°)	9695.4	25.8			G4/12000
FVH (80°-90°)	84.0	0.2			G1/100
BL (0°-30°)	630.0	1.7	B2/1000		
BM (30°-60°)	874.3	2.3	B1/1000		
BH (60°-80°)	361.0	1.0	B1/500		G1/500
BVH (80°-90°)	2.7	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°	75°	76°	85°
0°	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1
2.5°	4763.6	4656.4	4681.1	4611.9	4486.6	4229.5	4010.3	3802.6	3560.3	3552.1	3352.6
5°	6423.4	6332.7	6321.2	6181.1	5953.6	5516.8	5091.6	4607.0	4066.3	4026.8	3603.1
7.5°	7929.9	7857.3	7831.0	7664.5	7240.9	6815.7	6261.9	5549.8	4704.2	4631.7	3941.0
10°	9087.0	9052.4	9058.9	8940.2	8577.7	8182.1	7455.2	6547.0	5427.8	5315.7	4346.5
12.5°	9963.8	9972.1	10031.5	9958.9	9756.2	9462.8	8686.5	7610.1	6228.9	6075.6	4809.7
15°	10608.4	10649.5	10758.4	10849.0	10834.2	10580.3	9868.3	8689.8	7079.4	6909.6	5325.6
17.5°	11025.3	11071.5	11229.7	11430.8	11615.5	11556.1	11008.8	9731.5	7939.8	7743.7	5877.8
20°	11391.2	11445.6	11615.5	11880.9	12225.4	12299.5	11940.2	10741.9	8798.6	8559.5	6448.1
22.5°	12184.1	12182.5	12286.3	12441.2	12769.3	12960.4	12733.0	11679.7	9647.4	9398.5	7029.9
25°	13618.1	13563.7	13527.5	13405.5	13478.0	13596.7	13469.8	12556.6	10501.2	10249.0	7620.0
27.5°	15322.5	15355.4	15062.0	14734.0	14480.2	14358.2	14150.5	13369.2	11322.0	11045.2	8196.9
30°	17120.7	17130.6	16784.4	16365.8	15807.1	15343.9	14984.5	14145.6	12166.0	11864.4	8757.3
32.5°	18742.6	18678.4	18335.5	17765.2	17059.7	16538.9	15792.2	15012.5	13059.4	12767.6	9380.4
35°	20028.3	19952.4	19535.5	19016.2	18284.4	17760.2	16861.9	15877.9	13998.8	13713.7	10005.1
37.5°	20967.8	20878.8	20450.3	19916.2	19284.9	18980.0	18103.0	16819.1	15024.1	14717.5	10662.8
40°	21294.2	21216.6	20948.0	20557.4	20049.7	19980.5	19420.1	17902.0	16140.0	15813.6	11407.7
42.5°	21099.6	21023.8	20928.2	20796.4	20585.4	20651.3	20662.8	19136.6	17379.5	17058.0	12230.3
45°	20328.2	20260.7	20359.6	20552.5	20814.5	21140.9	21796.9	20463.4	18764.1	18421.2	13181.3
47.5°	19192.6	19143.1	19416.8	19898.0	20664.5	21564.5	22833.6	21857.8	20318.4	20000.2	14368.1
50°	17577.3	17569.1	18116.3	18994.8	20173.3	21768.9	23905.0	23443.5	22477.6	22143.1	16018.1
52.5°	15062.0	15078.5	16154.8	17560.8	19311.3	21630.4	24594.1	25480.8	24989.6	24641.9	17447.0
55°	12667.1	12765.9	13529.1	15556.5	17989.4	21116.1	24831.3	26431.8	26375.8	26046.2	18241.6
57.5°	10321.5	10501.2	11236.3	13130.3	16059.2	19931.0	24701.2	26843.9	27407.6	27155.5	19289.8
60°	7779.9	7862.3	8709.5	10479.8	13581.9	17768.5	23756.7	27068.1	28818.5	28643.9	20811.2
62.5°	4949.8	5155.8	5907.4	7615.0	10575.4	14765.3	22164.5	27064.8	30583.9	30679.5	22774.3
65°	2607.6	2848.2	3247.1	4719.0	7267.3	11411.1	19769.5	26811.0	32749.8	32883.3	24308.8
67.5°	1406.0	1475.2	1686.2	2449.3	4214.7	7730.4	16250.4	25558.3	34004.1	34180.4	24523.2
70°	1028.5	1066.4	1145.5	1354.8	2121.3	4490.0	11857.8	22718.3	32387.1	32321.2	21788.6
72.5°	789.5	848.8	908.2	992.3	1219.8	2396.6	7382.7	17790.0	25841.8	25406.7	16286.7
75°	623.0	633.0	717.0	792.8	914.8	1364.8	3278.4	10361.1	15772.4	14742.2	8445.8
77.5°	497.8	504.3	553.8	619.8	735.2	896.7	1015.4	4076.2	5035.5	4493.2	1832.9
80°	295.0	311.5	412.1	478.0	609.9	565.4	370.8	885.2	786.2	712.1	308.2
82.5°	164.8	178.0	232.4	377.5	425.3	270.3	184.6	239.0	184.6	179.7	87.4
85°	0.0	8.2	150.0	234.1	173.1	59.3	77.5	79.1	54.4	51.1	34.7
87.5°	0.0	0.0	46.1	44.5	6.6	9.9	18.2	26.4	21.4	21.4	18.2
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°	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1	3191.1
2.5°	3253.7	3164.7	2996.6	2831.7	2693.3	2579.5	2477.4	2436.2	2403.2	2398.3	2371.9
5°	3398.8	3219.1	2897.7	2634.0	2457.6	2332.3	2225.2	2159.2	2108.2	2088.3	2070.3
7.5°	3617.9	3346.0	2884.5	2581.2	2370.2	2159.2	1961.5	1747.2	1613.6	1562.6	1532.9
10°	3885.0	3514.2	2933.9	2566.4	2197.1	1752.1	1424.1	1152.1	1041.7	1005.4	995.5
12.5°	4196.5	3723.5	3019.6	2474.1	1828.0	1244.5	982.4	890.1	865.3	853.9	853.9
15°	4554.2	3952.6	3080.6	2207.0	1351.6	941.1	850.5	807.7	781.3	766.5	768.1
17.5°	4920.2	4176.8	3051.0	1819.7	997.2	837.4	769.7	723.6	687.3	672.5	669.2
20°	5289.3	4384.4	2886.1	1354.8	843.9	759.9	684.0	633.0	596.7	581.8	578.6
22.5°	5671.7	4560.8	2596.0	993.9	758.2	674.2	600.0	548.9	514.3	501.1	494.5
25°	6044.3	4704.2	2190.5	804.4	677.4	593.4	522.5	474.7	443.4	430.2	428.5
27.5°	6392.0	4794.9	1720.8	710.4	606.5	520.8	456.6	413.7	387.3	377.5	375.8
30°	6705.2	4803.1	1272.5	641.2	543.9	458.2	398.9	361.0	337.9	328.0	324.7
32.5°	7021.7	4733.8	926.3	578.6	486.3	403.8	346.2	316.4	300.0	291.8	291.8
35°	7320.0	4574.0	721.9	524.2	430.2	351.1	304.9	283.5	273.6	265.4	265.4
37.5°	7611.8	4344.8	613.1	476.4	377.5	306.6	268.7	255.5	247.2	239.0	239.0
40°	7908.5	4056.4	557.2	431.9	334.6	272.0	239.0	227.5	219.2	212.7	211.0
42.5°	8272.7	3723.5	520.8	390.6	296.7	240.6	211.0	197.8	191.2	184.6	181.3
45°	8694.7	3436.7	491.2	349.4	265.4	214.3	183.0	169.7	159.9	151.7	150.0
47.5°	9302.9	3229.0	451.6	304.9	235.7	186.2	158.3	143.4	128.6	120.4	118.7
50°	10079.3	3057.5	400.6	265.4	206.1	158.3	131.9	113.7	100.5	92.3	92.3
52.5°	10464.9	2833.4	354.4	230.7	173.1	133.5	107.1	85.7	79.1	70.9	70.9
55°	10619.9	2662.0	308.2	196.2	143.4	110.4	84.0	66.0	61.0	56.1	54.4
57.5°	11055.0	2612.5	268.7	166.5	118.7	87.4	64.3	49.5	46.1	39.6	39.6
60°	11755.6	2637.2	232.4	141.8	95.6	67.5	47.8	37.9	34.7	28.0	28.0
62.5°	12512.1	2605.9	196.2	121.9	74.2	49.5	33.0	28.0	28.0	16.5	14.8
65°	12657.1	2320.8	168.1	100.5	57.7	36.2	21.4	18.2	24.7	3.3	0.0
67.5°	11747.3	1799.9	145.0	77.5	42.9	28.0	16.5	8.2	21.4	0.0	0.0
70°	9393.5	1143.9	117.0	56.1	33.0	23.1	13.2	3.3	16.5	0.0	0.0
72.5°	6642.6	664.3	92.3	39.6	28.0	18.2	9.9	0.0	9.9	0.0	0.0
75°	3359.2	354.4	57.7	29.6	21.4	13.2	6.6	0.0	1.7	0.0	0.0
77.5°	726.9	164.8	36.2	21.4	14.8	8.2	3.3	0.0	0.0	0.0	0.0
80°	158.3	72.6	23.1	13.2	8.2	4.9	0.0	0.0	0.0	0.0	0.0
82.5°	57.7	37.9	11.6	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.3	19.7	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	16.5	6.6	1.7	1.7	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)