

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: P383352

Luminaire Tested: **GLEON-SA6C-735-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6C-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28562.2 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

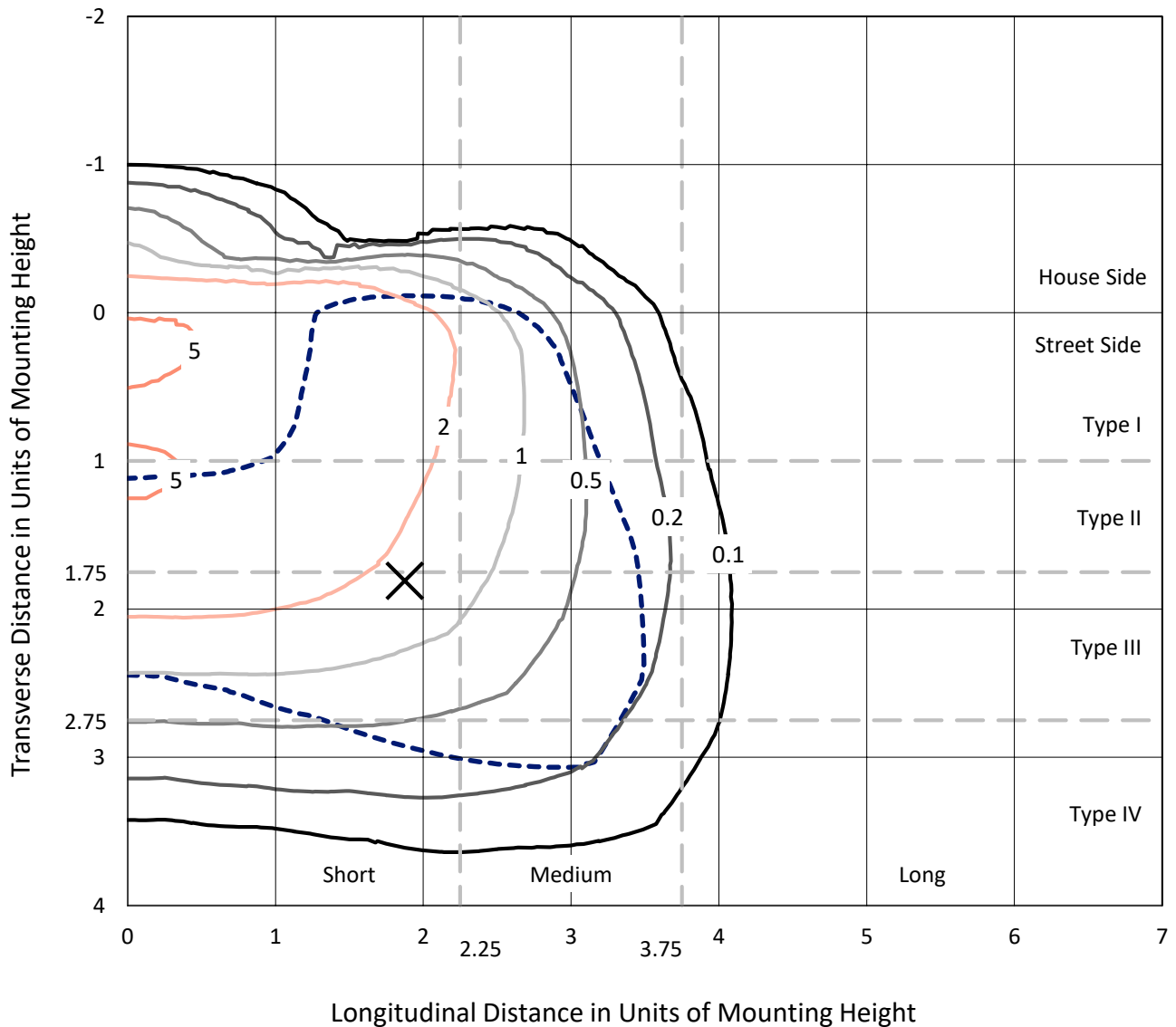
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

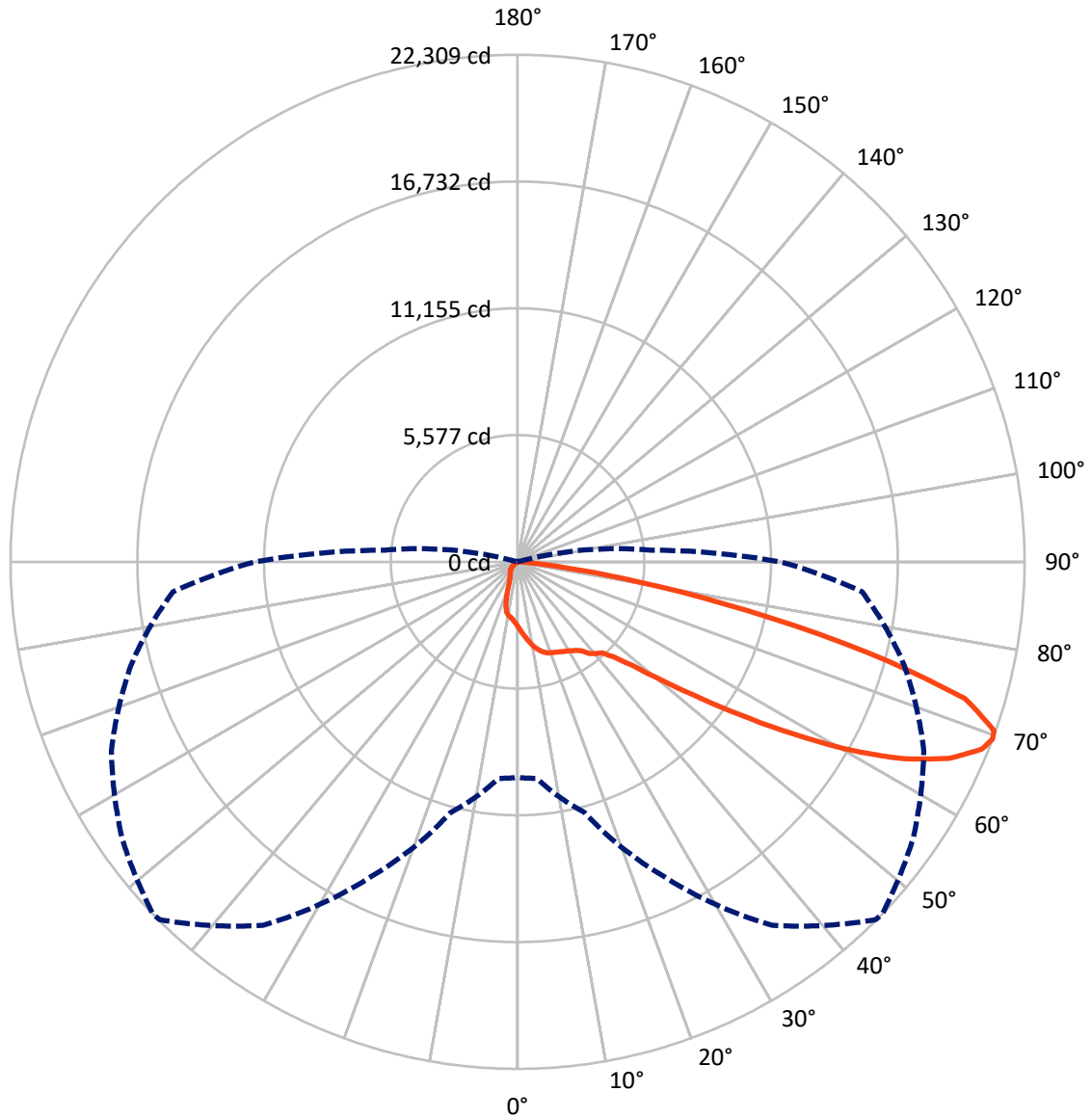
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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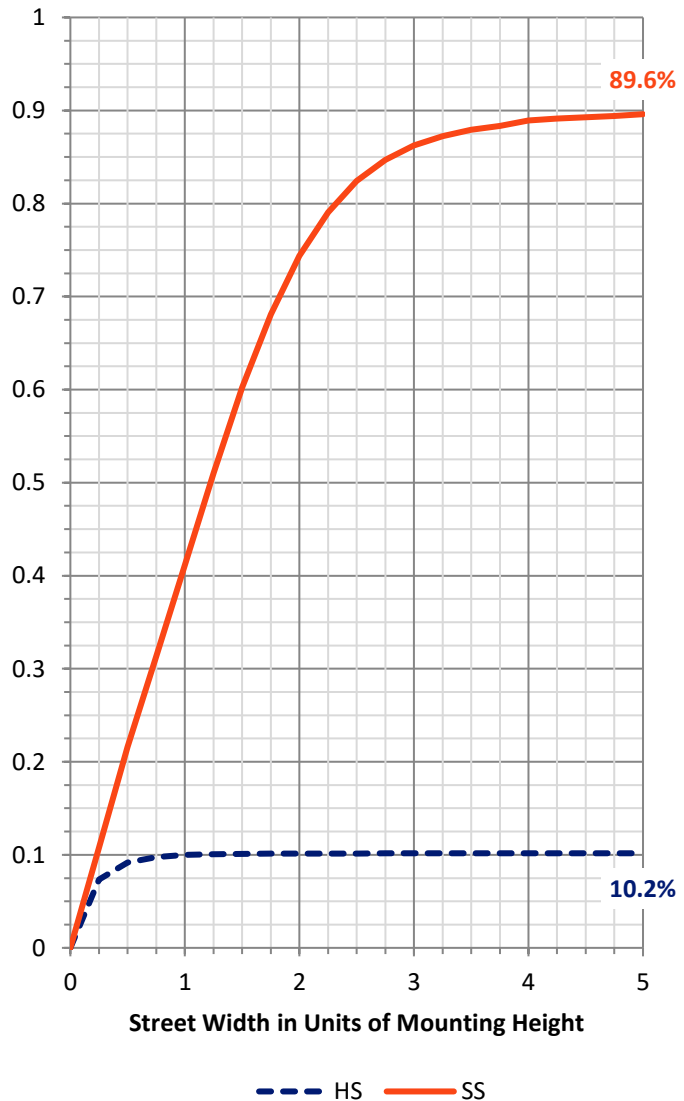
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2931.3	0.0	2931.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	25630.9	0.0	25630.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	28562.2	0.0	28562.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.9	1.0
10°-20°	864.2	3.0
20°-30°	1359.0	4.8
30°-40°	1948.9	6.8
40°-50°	3368.4	11.8
50°-60°	6654.6	23.3
60°-70°	9300.4	32.6
70°-80°	4493.1	15.7
80°-90°	288.8	1.0
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°	28562.2	100.0
0°-180°	28562.2	100.0

Coefficient of Utilization

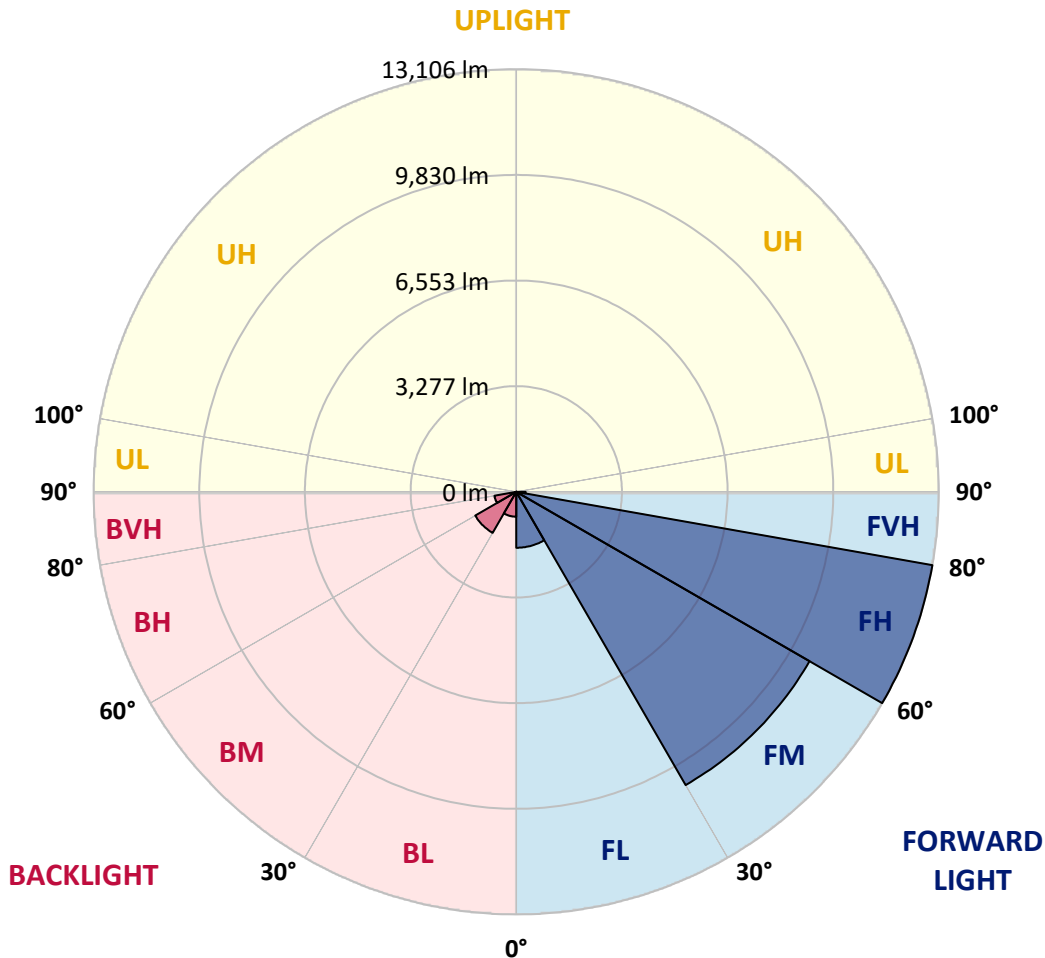


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.5	6.1			
FM (30°-60°)	10502.9	36.8			
FH (60°-80°)	13106.1	45.9			G5
FVH (80°-90°)	286.4	1.0			G3/500
BL (0°-30°)	772.6	2.7	B2/1000		
BM (30°-60°)	1468.9	5.1	B2/2500		
BH (60°-80°)	687.3	2.4	B2/1000		G2/1000
BVH (80°-90°)	2.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8
2.5°	3179.2	3175.2	3156.5	3148.4	3102.9	3076.1	3065.4	3031.9	2983.7	2935.5	2881.9
5°	3540.8	3539.4	3504.7	3471.1	3385.4	3305.1	3290.3	3212.7	3104.2	3002.5	2900.7
7.5°	3910.4	3893.0	3858.2	3793.9	3669.4	3540.8	3528.7	3419.0	3264.9	3117.6	2971.6
10°	4223.7	4213.0	4167.6	4069.7	3923.8	3777.8	3763.1	3627.8	3453.7	3273.0	3086.8
12.5°	4467.5	4459.5	4399.2	4277.3	4122.0	3970.6	3950.6	3830.1	3643.9	3441.7	3222.0
15°	4616.2	4612.1	4538.5	4408.5	4255.9	4124.7	4107.3	4001.5	3828.8	3617.1	3369.4
17.5°	4650.9	4652.3	4575.9	4444.7	4318.8	4225.1	4211.7	4131.3	3986.7	3776.5	3516.7
20°	4573.3	4589.4	4521.1	4407.2	4329.6	4280.0	4269.3	4221.1	4099.2	3901.0	3634.5
22.5°	4463.5	4471.5	4424.7	4348.3	4316.1	4325.5	4320.1	4293.4	4190.3	4008.2	3751.1
25°	4396.5	4396.5	4368.4	4304.1	4325.5	4383.1	4384.5	4379.1	4297.4	4139.4	3893.0
27.5°	4393.8	4385.8	4353.7	4305.4	4364.4	4452.8	4458.1	4494.3	4443.4	4298.7	4069.7
30°	4501.0	4491.6	4423.3	4360.4	4435.4	4530.4	4543.8	4622.8	4597.4	4471.5	4266.6
32.5°	4751.4	4717.9	4566.6	4463.5	4519.7	4633.5	4650.9	4776.9	4817.0	4684.5	4456.8
35°	5094.3	4988.4	4770.2	4659.0	4664.4	4783.6	4799.6	4984.4	5103.6	4880.0	4604.1
37.5°	5566.9	5514.8	5159.8	4862.6	4886.6	5067.4	5114.3	5315.2	5281.7	4987.1	4771.5
40°	6603.5	6521.8	6144.1	5433.1	5099.6	5297.8	5312.5	5419.7	5422.4	5229.5	5119.7
42.5°	8014.9	7981.5	7583.7	6468.2	5518.8	5451.8	5478.6	5659.3	5861.6	5741.0	5735.7
45°	9577.8	9560.4	9138.6	7842.2	6366.5	5956.7	5990.1	6232.5	6619.6	6646.3	6816.4
47.5°	10835.3	10827.3	10584.9	9375.6	7664.1	6812.4	6823.1	7080.2	7760.5	8096.6	8368.6
50°	11981.7	12020.5	11829.0	11034.8	9431.8	8152.9	8127.5	8298.9	9391.7	9942.0	10279.5
52.5°	13575.3	13630.1	13093.2	12582.9	11286.6	9816.2	9796.1	9975.6	11352.2	11764.7	11825.0
55°	14982.7	14889.0	14464.4	14317.1	13548.4	11870.4	11865.1	12023.1	13248.5	13423.9	13535.1
57.5°	15604.1	15567.9	15772.9	16110.3	15917.4	14298.4	14286.3	14165.9	14945.2	14964.0	15305.5
60°	15996.4	16040.7	16668.7	17709.3	18190.1	16911.1	16833.4	16098.3	16565.6	16524.2	16889.7
62.5°	15701.9	15788.9	16919.1	18653.4	19890.8	19191.7	19081.9	17868.7	17950.4	17807.1	18147.2
65°	14137.7	14273.0	16125.1	18475.3	20734.5	20974.2	20863.0	19431.4	19049.8	18814.1	18625.3
67.5°	11479.5	11559.8	13493.6	16925.8	20354.1	22037.5	22014.7	20801.5	19880.1	18644.0	17178.9
69°	9486.7	9565.8	11427.2	15294.8	19517.2	22265.2	22309.4	21240.7	19722.1	17610.2	15221.1
70°	8035.1	8119.5	9853.6	13896.6	18546.3	22159.4	22238.4	21199.2	19269.4	16412.9	13503.0
72.5°	4214.4	4286.7	6066.5	9573.8	15119.3	20347.5	20587.2	19407.4	16333.9	11920.0	7984.2
75°	1324.5	1365.9	2369.0	5004.6	10351.8	15821.0	15876.0	15223.8	11598.6	6556.6	3325.2
77.5°	504.9	492.8	788.7	1844.1	5233.5	9962.2	10298.3	9513.5	6086.5	2318.2	767.3
80°	271.8	273.2	409.8	763.3	2239.1	5119.7	5403.6	4610.8	2162.8	723.2	176.8
82.5°	117.8	123.2	230.4	404.5	1028.5	1888.2	2030.2	1690.0	826.3	486.1	65.6
85°	25.4	28.1	111.1	219.7	419.2	530.3	555.8	547.7	526.3	377.6	25.4
87.5°	0.0	0.0	49.6	79.0	105.8	120.5	105.8	138.0	290.6	254.4	13.4
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°	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8	2861.8
2.5°	2864.5	2840.4	2798.9	2753.4	2721.2	2687.7	2661.0	2648.9	2635.5	2626.1	2638.1
5°	2859.1	2812.2	2731.9	2654.3	2598.0	2552.4	2515.0	2500.3	2485.6	2474.8	2473.4
7.5°	2906.1	2840.4	2717.2	2603.4	2516.3	2454.7	2403.9	2382.4	2365.0	2356.9	2350.3
10°	2995.8	2911.4	2746.7	2598.0	2485.6	2381.0	2271.2	2186.9	2131.9	2106.5	2097.2
12.5°	3112.2	3006.5	2802.9	2626.1	2462.7	2261.9	2028.8	1828.0	1698.1	1655.3	1629.7
15°	3248.9	3117.6	2876.5	2662.3	2379.7	2012.8	1617.7	1355.2	1234.8	1210.6	1183.8
17.5°	3380.1	3235.5	2964.9	2669.0	2197.6	1608.3	1185.2	1007.1	960.1	976.3	980.3
20°	3495.3	3352.0	3052.0	2610.1	1866.8	1206.6	917.3	873.1	890.6	921.4	926.7
22.5°	3611.8	3464.4	3132.3	2454.7	1443.6	916.0	826.3	837.0	854.4	885.2	890.6
25°	3753.7	3601.1	3207.3	2169.5	1083.4	779.4	784.7	800.9	818.3	846.4	849.0
27.5°	3917.1	3773.8	3256.9	1798.5	803.6	716.5	733.9	758.0	775.4	802.2	807.6
30°	4134.0	4001.5	3273.0	1414.2	673.6	660.2	668.3	697.7	723.2	747.3	751.3
32.5°	4337.6	4226.4	3219.4	1067.4	624.0	608.0	608.0	625.4	654.9	677.6	683.0
35°	4525.1	4452.8	3047.9	780.7	586.6	559.8	546.4	546.4	565.2	583.9	589.2
37.5°	4772.9	4770.2	2770.8	622.7	550.4	519.6	491.5	470.1	463.4	467.4	470.1
40°	5197.4	5201.4	2409.2	558.5	519.6	478.1	435.2	396.4	360.2	348.2	346.8
42.5°	5860.3	5800.0	2030.2	527.6	492.8	435.2	370.9	318.7	262.5	245.1	243.7
45°	6912.8	6555.3	1628.4	499.5	464.7	387.1	306.7	235.7	190.1	176.8	176.8
47.5°	8446.2	7547.6	1261.5	468.8	427.2	332.1	231.7	170.1	139.3	132.6	134.0
50°	10031.7	8519.8	966.9	429.9	381.7	274.5	171.4	123.2	105.8	105.8	107.1
52.5°	11437.9	9232.3	754.0	388.4	325.4	215.7	129.9	96.4	88.4	87.0	88.4
55°	12754.4	9691.6	577.2	340.1	258.5	160.7	99.1	79.0	73.7	71.0	69.7
57.5°	14023.9	9919.3	432.5	274.5	187.5	116.5	79.0	67.0	61.6	57.6	56.3
60°	14868.9	9734.5	297.3	202.2	129.9	84.4	65.6	57.6	50.9	46.9	45.6
62.5°	15345.7	9229.6	191.5	146.0	92.4	63.0	52.3	48.3	38.8	34.8	34.8
65°	15152.8	8396.7	134.0	104.4	67.0	46.9	38.8	38.8	28.1	22.7	21.4
67.5°	13428.0	7093.6	101.8	77.7	48.3	34.8	29.4	33.4	17.4	10.7	10.7
69°	11553.1	5879.0	87.0	64.3	40.1	28.1	25.4	30.8	12.0	8.0	6.7
70°	10041.2	5071.4	79.0	56.3	33.4	24.1	22.7	29.4	12.0	6.7	5.4
72.5°	6007.6	2828.4	60.3	40.1	21.4	18.7	18.7	33.4	12.0	6.7	5.4
75°	2427.9	996.4	44.2	28.1	16.1	16.1	22.7	42.9	10.7	5.4	4.0
77.5°	550.4	218.3	25.4	17.4	10.7	16.1	26.8	33.4	6.7	2.7	0.0
80°	134.0	53.6	16.1	10.7	6.7	12.0	20.1	18.7	1.3	0.0	0.0
82.5°	44.2	18.7	6.7	5.4	1.3	4.0	9.4	5.4	0.0	0.0	0.0
85°	18.7	10.7	2.7	1.3	0.0	0.0	1.3	0.0	0.0	0.0	0.0
87.5°	12.0	4.0	0.0	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)