

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: P647628

Luminaire Tested: **GALN-SA8D-835-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647628
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8D-835-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35910.7 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

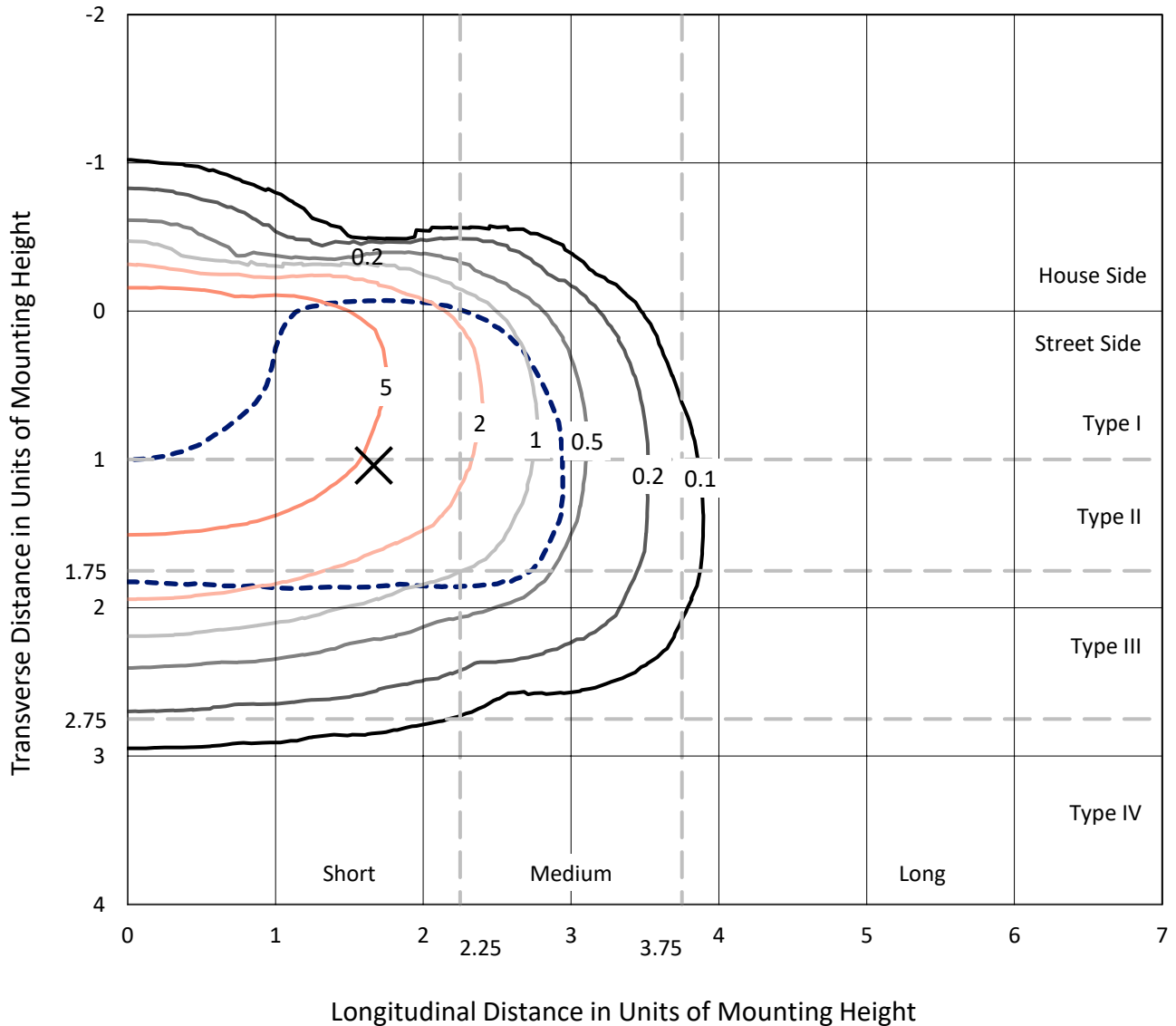
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

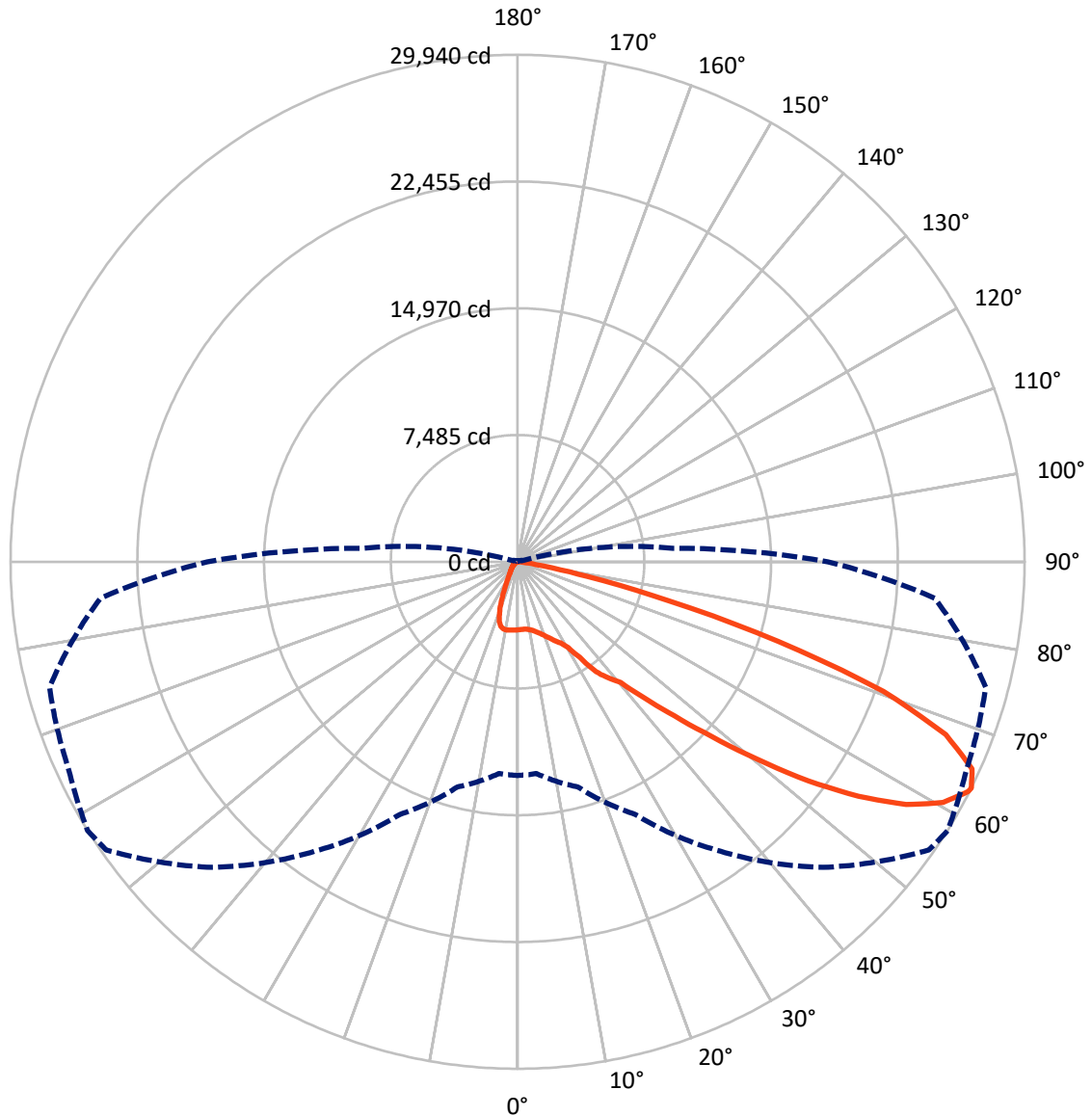
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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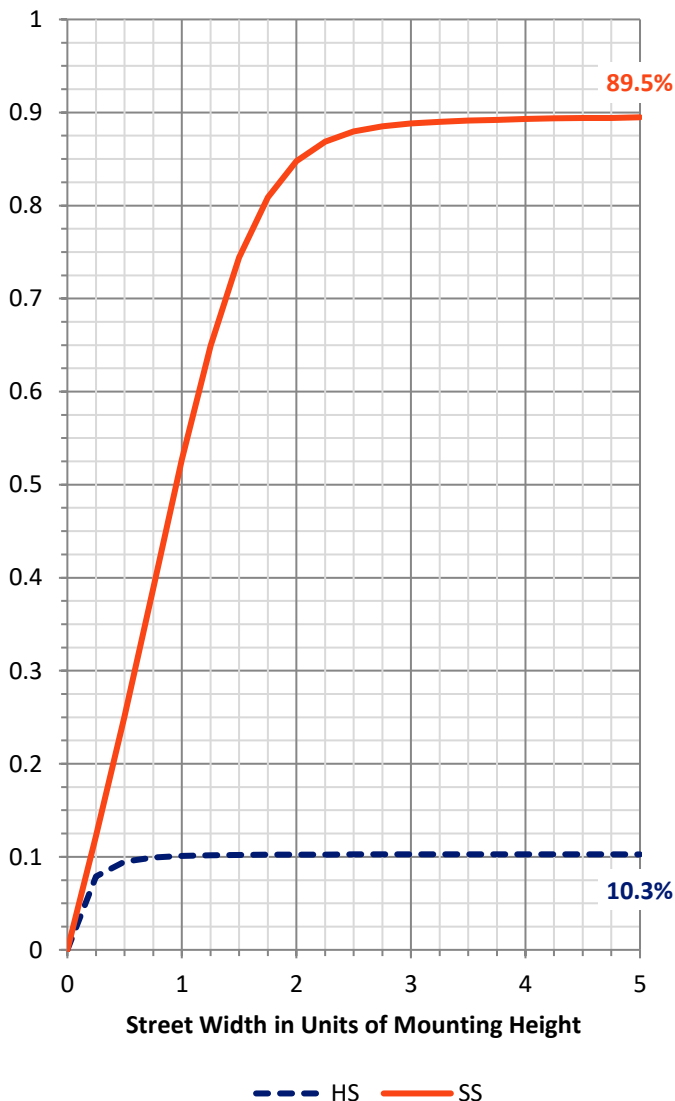
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3718.3	0.0	3718.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	32192.4	0.0	32192.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	35910.7	0.0	35910.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.4	1.0
10°-20°	1025.1	2.9
20°-30°	1779.0	5.0
30°-40°	3269.2	9.1
40°-50°	6154.2	17.1
50°-60°	10526.3	29.3
60°-70°	10078.9	28.1
70°-80°	2570.2	7.2
80°-90°	131.4	0.4
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°	35910.7	100.0
0°-180°	35910.7	100.0

Coefficient of Utilization



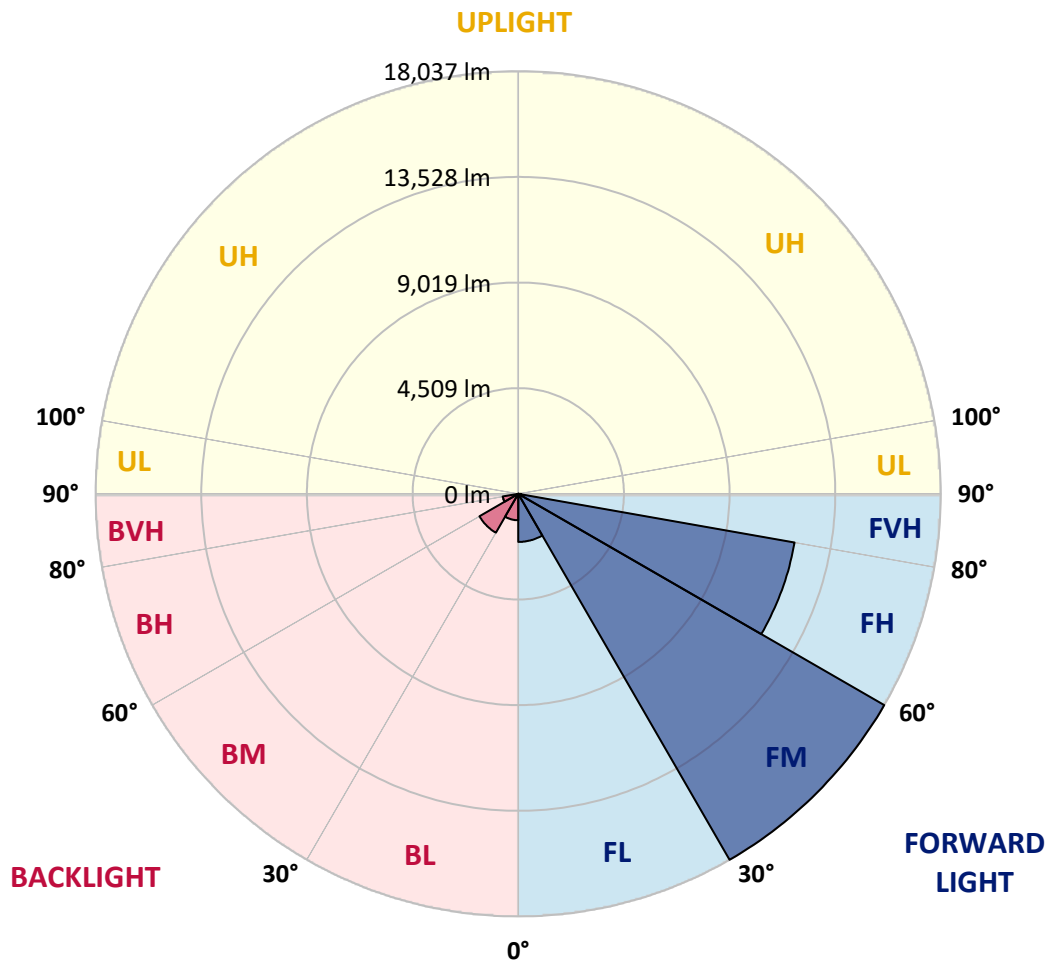
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2052.8	5.7			
FM (30°-60°)	18037.2	50.2			
FH (60°-80°)	11976.0	33.3			G4/12000
FVH (80°-90°)	126.3	0.4			G2/225
BL (0°-30°)	1127.7	3.1	B3/2500		
BM (30°-60°)	1912.5	5.3	B2/2500		
BH (60°-80°)	673.1	1.9	B2/1000		G2/1000
BVH (80°-90°)	5.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3
2.5°	3920.3	3933.8	3947.3	3952.7	3971.7	3990.6	4004.1	4001.4	4023.1	4033.9	4033.9
5°	3763.5	3763.5	3798.6	3831.1	3885.2	3939.3	3990.6	4001.4	4042.0	4079.8	4093.4
7.5°	3631.0	3639.1	3666.2	3725.7	3798.6	3893.3	3996.0	4020.3	4090.6	4174.5	4209.6
10°	3568.8	3574.2	3609.4	3671.6	3763.5	3893.3	4036.6	4082.6	4190.7	4323.2	4371.8
12.5°	3555.3	3563.4	3598.6	3668.9	3774.3	3931.1	4125.8	4174.5	4331.2	4501.6	4574.6
15°	3579.6	3585.0	3620.2	3695.9	3812.2	3998.7	4244.7	4312.4	4498.9	4696.3	4790.9
17.5°	3666.2	3660.8	3685.1	3747.3	3877.0	4082.6	4388.0	4469.1	4688.1	4958.5	5020.7
20°	4033.9	3998.7	3977.1	3923.0	3974.4	4201.5	4561.1	4680.1	4950.4	5226.2	5269.4
22.5°	4826.0	4747.6	4593.5	4382.6	4220.4	4363.7	4769.3	4907.1	5255.9	5526.3	5526.3
25°	5834.5	5734.5	5580.4	5120.7	4723.3	4631.4	5004.5	5177.5	5588.5	5861.5	5772.4
27.5°	7097.1	7018.7	6718.6	6183.3	5575.0	5099.1	5277.6	5437.1	5883.1	6213.0	6026.4
30°	8124.5	8086.7	7840.6	7362.1	6691.6	5996.7	5785.8	5891.3	6275.2	6656.4	6464.4
32.5°	8992.4	8992.4	8740.9	8294.9	7667.6	7051.1	6648.3	6724.0	7091.7	7532.4	7175.5
35°	9946.8	9914.3	9711.5	9287.1	8584.1	8040.7	7875.8	7978.5	8311.1	8638.2	7759.5
37.5°	10949.9	10939.0	10728.1	10317.2	9744.0	9059.9	8673.4	8700.4	8870.7	9070.8	8443.6
40°	12039.4	12055.6	11779.8	11525.7	10984.9	10284.7	9543.9	9373.6	9533.1	10098.2	9706.1
42.5°	13326.3	13288.5	13169.5	12823.5	12388.2	11969.1	11079.6	11017.4	11158.0	11763.6	11339.2
45°	14821.5	14875.5	14670.1	14478.1	14186.1	13837.3	13093.8	12985.7	13139.8	14080.7	13477.8
47.5°	16319.3	16267.9	16400.4	16365.2	16522.1	16262.5	15605.5	15383.8	15754.3	16646.4	15759.7
50°	17460.3	17517.0	17792.8	18195.7	18868.9	19014.8	18384.9	18309.2	18474.1	19047.3	17800.9
52.5°	18201.1	18390.3	18822.9	19858.4	21072.3	22015.9	21537.4	21496.8	21429.2	21583.3	19753.0
55°	18685.0	18877.0	19442.0	20966.9	23056.8	24589.8	24614.2	24441.1	23995.0	23884.2	21577.9
57.5°	18387.6	18425.5	19231.2	21269.7	24157.2	26425.6	27220.4	27047.4	26222.8	25803.8	23189.3
60°	16527.5	16605.9	17727.9	20123.3	23678.7	27025.8	28948.1	28869.7	27966.6	27493.6	24443.8
62.5°	13231.7	13458.8	14613.3	17284.5	21453.6	26014.6	29648.4	29870.0	29167.1	28515.5	24838.6
63°	12626.1	12553.1	13772.4	16457.2	20864.1	25514.4	29659.2	29940.4	29221.2	28612.9	24730.4
65°	9346.6	9565.5	10357.8	12977.6	17362.9	23186.6	28991.4	29488.9	29021.1	28183.0	23532.7
67.5°	5247.8	5237.0	6113.0	8492.2	12152.9	18187.5	26214.7	27266.4	27169.1	25290.0	19507.0
70°	2568.5	2609.0	2968.6	4401.6	7048.4	12547.7	21783.4	22919.0	22954.1	19863.8	13488.6
72.5°	1162.6	1181.5	1438.4	2144.0	3622.9	6680.7	15010.7	16094.9	15894.8	12658.5	7448.6
75°	613.7	654.3	792.2	1078.7	1746.6	2755.1	8165.0	9214.1	8795.0	5783.2	2741.5
77.5°	454.2	467.8	538.0	686.7	935.5	1073.3	3522.9	4190.7	3925.7	2092.6	908.4
80°	332.5	343.3	400.1	486.6	589.4	546.1	1327.5	1522.2	1365.3	711.0	278.5
82.5°	202.8	205.5	292.0	362.3	370.4	305.5	438.0	470.4	492.0	400.1	151.4
85°	73.0	91.9	197.4	262.2	219.0	154.1	183.8	202.8	221.7	254.2	89.2
87.5°	8.1	10.8	94.7	127.1	62.2	56.8	67.6	75.7	81.1	94.7	43.2
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°	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3	4020.3
2.5°	4044.7	4055.5	4047.4	4033.9	4031.2	4023.1	4006.8	4006.8	4006.8	4012.2	4006.8
5°	4104.2	4112.2	4093.4	4066.3	4036.6	3998.7	3958.1	3933.8	3931.1	3925.7	3912.2
7.5°	4217.7	4228.5	4185.3	4120.4	4039.3	3947.3	3860.8	3779.7	3741.9	3712.1	3712.1
10°	4382.6	4393.4	4307.0	4190.7	4028.5	3841.9	3636.4	3449.9	3303.9	3236.3	3220.1
12.5°	4580.0	4585.4	4442.1	4239.3	3971.7	3612.1	3174.1	2765.9	2482.0	2352.2	2338.7
15°	4796.3	4758.4	4569.2	4258.3	3809.5	3139.0	2382.0	1881.8	1587.1	1500.5	1533.0
17.5°	5015.3	4945.0	4666.5	4228.5	3444.5	2382.0	1600.5	1284.3	1192.4	1168.0	1168.0
20°	5220.8	5123.4	4736.8	4098.8	2811.8	1641.1	1186.9	1111.2	1094.9	1078.7	1081.5
22.5°	5426.3	5277.6	4799.0	3809.5	2095.3	1173.4	1062.5	1038.2	1016.6	995.0	992.2
25°	5626.3	5420.9	4823.4	3274.1	1427.6	1008.5	970.6	938.2	894.9	870.6	865.1
27.5°	5834.5	5593.9	4807.1	2598.2	1040.9	903.0	865.1	819.2	767.8	724.6	724.6
30°	6234.6	5923.7	4750.3	1868.2	876.0	794.9	746.2	673.2	616.5	573.2	570.5
32.5°	6780.8	6353.6	4555.7	1314.0	778.7	700.2	627.3	546.1	486.6	454.2	454.2
35°	7267.4	6786.2	4190.7	967.9	700.2	608.3	519.1	440.7	394.7	373.1	365.0
37.5°	8008.2	7418.8	3687.8	786.8	624.5	527.2	435.3	362.3	324.5	308.2	308.2
40°	9119.4	8192.1	3071.4	689.4	551.5	448.8	362.3	305.5	275.8	256.8	256.8
42.5°	10498.3	9138.4	2446.8	619.1	484.0	386.6	302.8	259.6	232.6	219.0	216.3
45°	12234.1	10136.0	1884.4	554.3	429.9	329.9	256.8	219.0	192.0	183.8	186.6
47.5°	14045.5	11014.7	1460.0	497.4	373.1	278.5	219.0	189.3	170.3	159.5	159.5
50°	15592.0	11620.3	1108.5	432.6	329.9	235.2	192.0	170.3	154.1	148.7	146.0
52.5°	16884.4	11796.1	848.9	375.8	289.3	202.8	170.3	154.1	140.6	132.5	132.5
55°	17984.7	11642.0	665.1	316.3	243.4	175.7	151.4	137.9	121.7	113.5	110.9
57.5°	18628.2	11147.2	508.3	262.2	197.4	146.0	132.5	116.3	97.3	83.8	83.8
60°	18952.7	10428.0	389.3	216.3	151.4	116.3	108.1	86.5	67.6	56.8	54.1
62.5°	18563.4	9473.6	294.7	170.3	113.5	86.5	73.0	62.2	43.2	32.4	32.4
63°	18322.7	9197.8	283.9	162.2	105.5	81.1	67.6	56.8	37.8	29.8	27.0
65°	16703.2	7994.7	232.6	129.7	83.8	56.8	46.0	40.6	27.0	13.5	10.8
67.5°	13264.2	6115.7	183.8	97.3	59.5	40.6	27.0	24.4	8.1	0.0	0.0
70°	8968.0	3950.1	143.3	70.3	40.6	24.4	13.5	10.8	2.7	0.0	0.0
72.5°	4677.3	2025.1	110.9	51.4	24.4	16.2	8.1	2.7	0.0	0.0	0.0
75°	1654.6	689.4	81.1	32.4	16.2	8.1	2.7	0.0	0.0	0.0	0.0
77.5°	500.2	256.8	51.4	24.4	10.8	5.4	0.0	0.0	0.0	0.0	0.0
80°	175.7	94.7	29.8	16.2	8.1	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	86.5	46.0	18.9	13.5	8.1	2.7	0.0	0.0	0.0	0.0	0.0
85°	48.7	29.8	16.2	13.5	8.1	5.4	0.0	0.0	0.0	0.0	0.0
87.5°	35.2	21.6	16.2	13.5	10.8	5.4	2.7	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)