

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: P651290

Luminaire Tested: **GALN-SA3D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16065.6 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

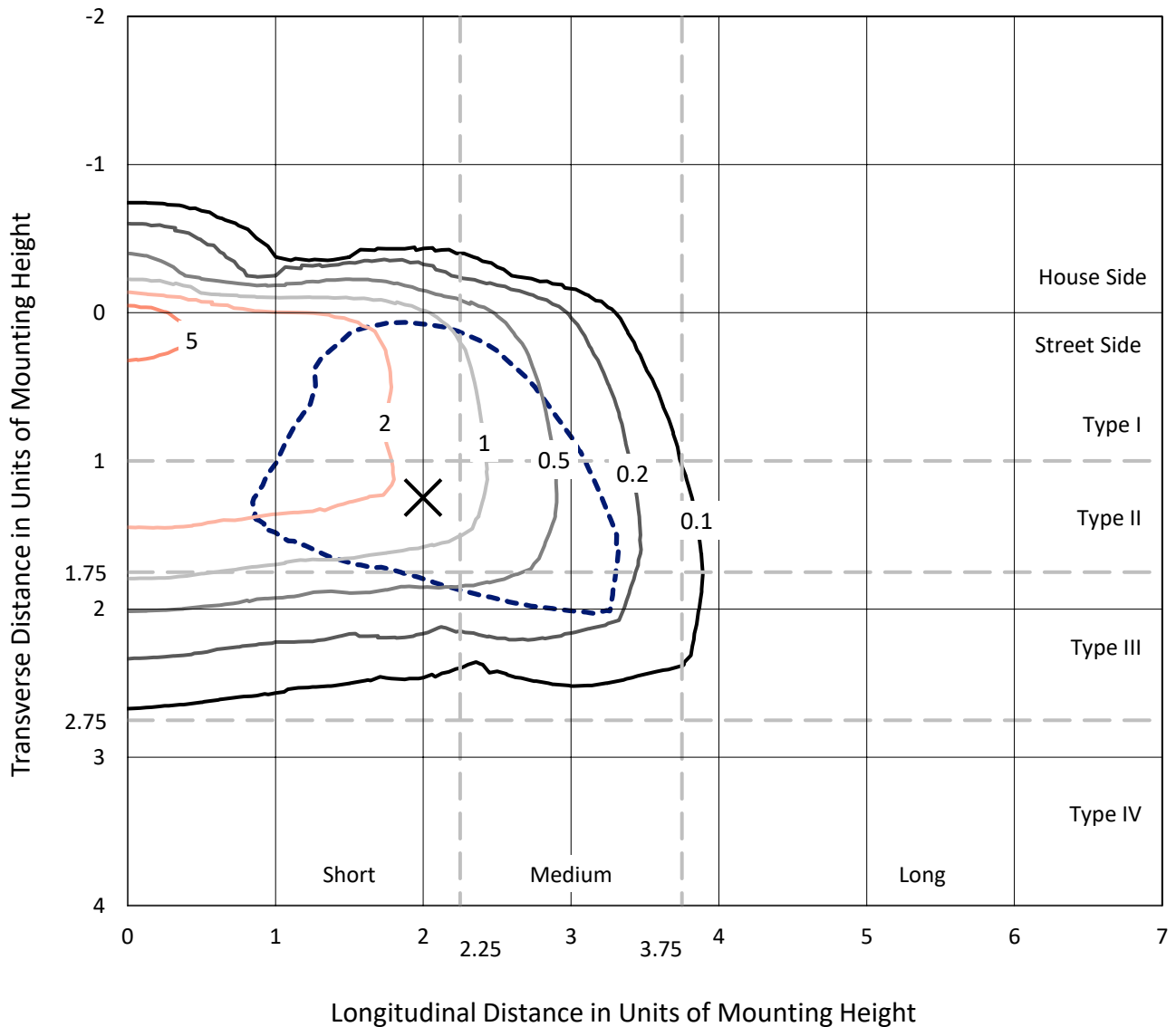
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

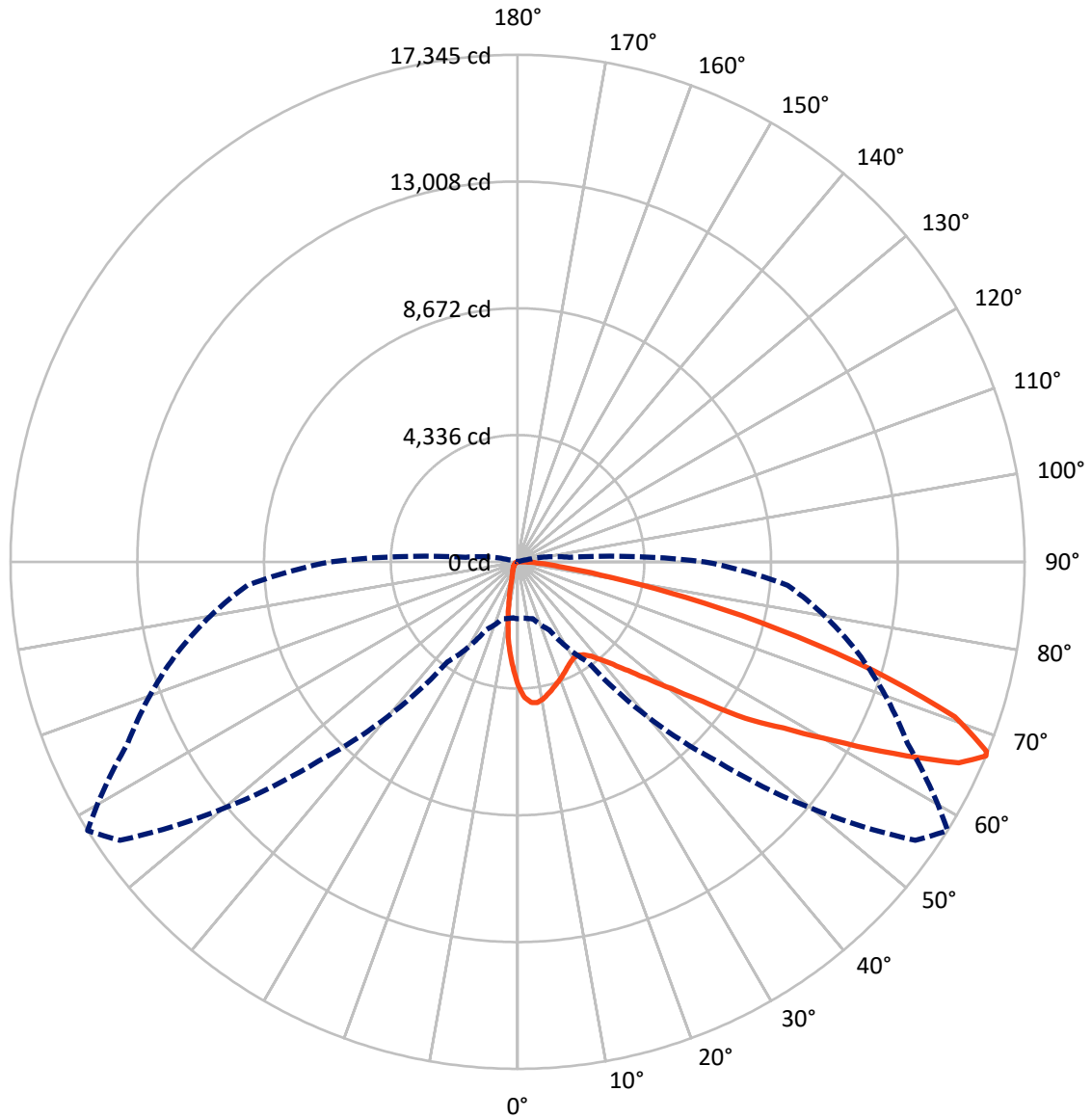
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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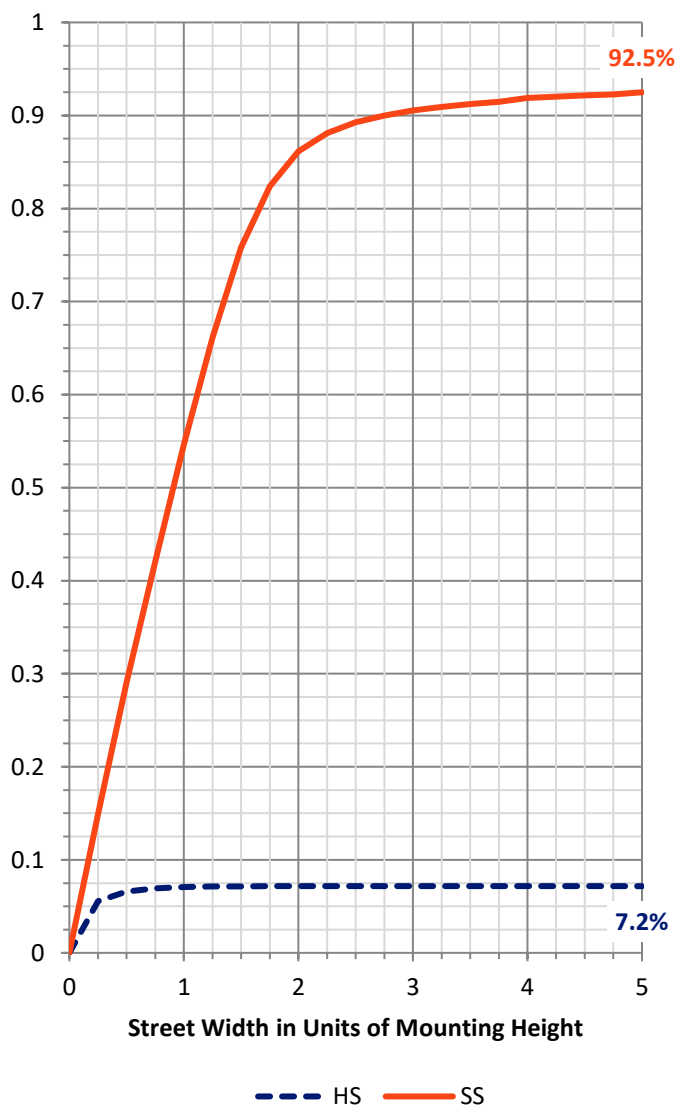
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.4	0.0	1159.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14906.2	0.0	14906.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	16065.6	0.0	16065.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.6	2.2
10°-20°	746.4	4.6
20°-30°	1011.4	6.3
30°-40°	1402.8	8.7
40°-50°	2237.3	13.9
50°-60°	3867.3	24.1
60°-70°	4417.7	27.5
70°-80°	1841.8	11.5
80°-90°	195.3	1.2
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°	16065.6	100.0
0°-180°	16065.6	100.0

Coefficient of Utilization



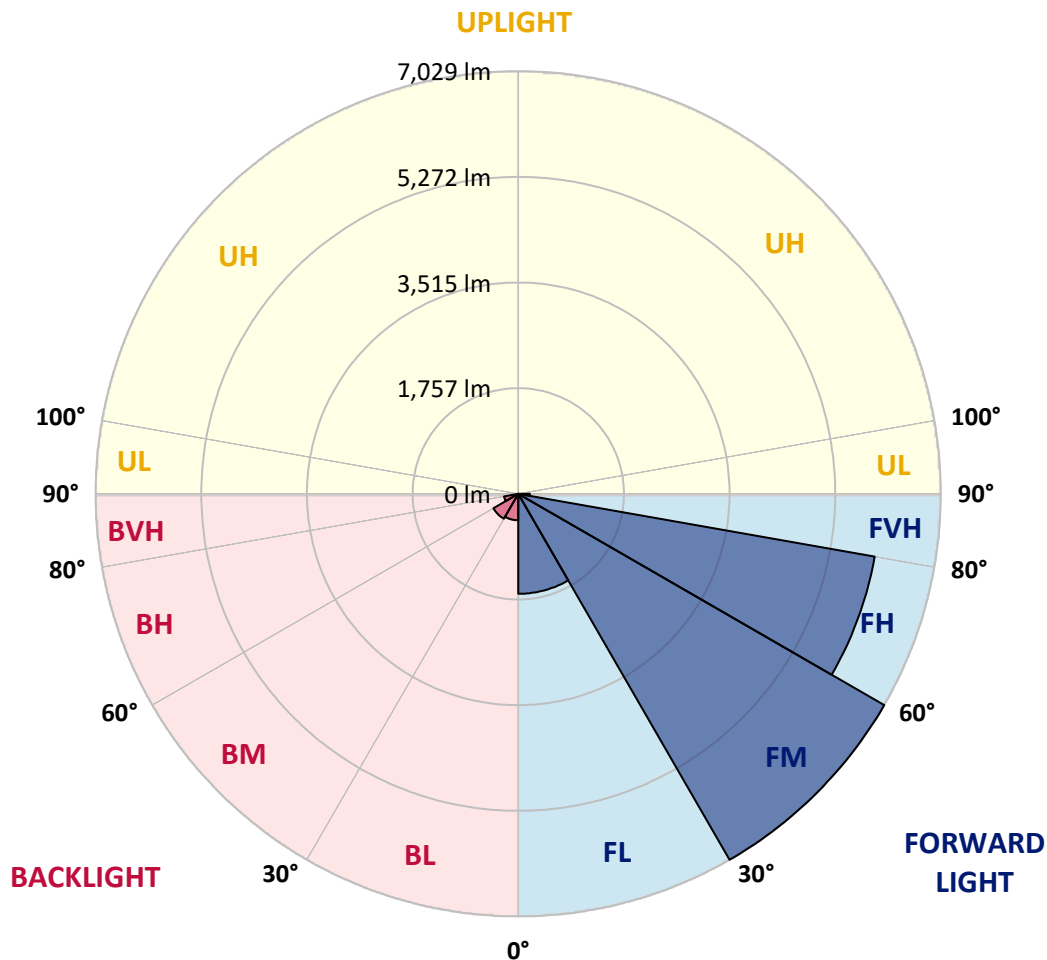
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.2	10.4			
FM (30°-60°)	7029.4	43.8			
FH (60°-80°)	6019.8	37.5			G3/7500
FVH (80°-90°)	193.9	1.2			G2/225
BL (0°-30°)	440.2	2.7	B1/500		
BM (30°-60°)	478.0	3.0	B1/1000		
BH (60°-80°)	239.7	1.5	B1/500		G1/500
BVH (80°-90°)	1.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8
2.5°	4942.7	4950.2	4922.3	4899.8	4841.8	4779.6	4696.9	4652.8	4577.7	4447.8	4303.9
5°	5058.7	5068.3	5064.0	5058.7	5036.1	4976.0	4870.8	4832.1	4721.5	4510.0	4250.2
7.5°	4801.0	4836.4	4840.7	4882.6	4922.3	4927.7	4888.0	4859.0	4756.9	4509.0	4154.7
10°	4459.6	4483.2	4517.6	4565.9	4661.4	4740.9	4779.6	4775.2	4716.2	4475.7	4043.0
12.5°	4115.0	4127.9	4180.4	4263.1	4380.2	4515.4	4618.5	4638.9	4640.0	4436.0	3949.7
15°	3818.6	3813.3	3854.1	3949.7	4113.9	4283.5	4468.2	4500.4	4551.9	4397.3	3862.7
17.5°	3565.3	3593.3	3599.6	3704.9	3856.2	4076.3	4311.5	4368.3	4471.4	4364.0	3790.8
20°	3408.6	3423.6	3437.6	3496.6	3633.0	3864.8	4164.4	4242.8	4396.2	4334.0	3710.2
22.5°	3362.4	3372.1	3360.3	3378.5	3475.2	3681.3	4004.4	4108.5	4324.3	4306.1	3644.7
25°	3397.8	3407.5	3379.6	3358.1	3391.4	3532.0	3849.8	3976.5	4266.4	4300.7	3595.4
27.5°	3483.8	3502.0	3463.3	3424.7	3405.4	3451.5	3728.5	3875.6	4226.6	4326.5	3572.8
30°	3617.9	3628.7	3599.6	3552.5	3508.4	3462.2	3665.2	3805.8	4215.9	4386.6	3570.7
32.5°	3763.9	3786.5	3770.4	3739.3	3682.3	3572.8	3683.4	3808.0	4241.7	4473.5	3597.5
35°	3944.3	3970.0	3985.1	3978.7	3905.6	3769.3	3799.4	3904.6	4310.4	4633.5	3670.5
37.5°	4121.4	4143.9	4228.8	4257.8	4193.4	4064.6	4024.8	4094.6	4461.8	4842.9	3802.6
40°	4324.3	4354.4	4473.5	4584.1	4553.0	4417.8	4344.8	4402.7	4693.6	5158.5	4052.7
42.5°	4518.7	4572.3	4753.8	4949.1	4978.1	4826.8	4778.5	4797.8	5037.2	5612.6	4401.6
45°	4794.5	4845.0	5079.1	5344.2	5480.5	5362.5	5313.1	5309.9	5508.5	6251.4	4967.4
47.5°	5192.8	5237.9	5513.8	5775.8	6018.4	6034.5	5941.2	5973.4	6101.1	6998.6	5660.9
50°	5681.3	5787.6	5969.1	6241.7	6565.9	6827.9	6856.9	6814.0	6923.4	7863.9	6494.0
52.5°	6390.9	6431.7	6598.1	6822.5	7202.6	7647.0	7991.7	7932.6	7898.3	8688.4	7335.7
55°	6920.3	6975.0	7233.7	7541.8	8099.0	8685.2	9432.4	9452.8	9019.1	9480.7	8159.1
57.5°	6760.3	6844.0	7235.9	7855.3	9080.3	10151.7	10707.8	10721.7	10056.1	10250.4	9088.9
60°	5939.0	5978.7	6540.2	7366.8	9164.0	11740.5	12516.8	12404.0	11111.5	11111.5	9910.1
62.5°	4211.6	4273.9	4729.1	5945.4	8276.1	12292.4	14683.2	14450.2	12565.0	11934.9	10399.6
65°	2691.5	2631.3	2933.0	3753.2	6165.5	11477.5	16569.5	16583.4	13932.8	12264.5	10132.4
67°	1949.6	1926.0	2012.9	2565.8	4180.4	9648.2	16609.2	17344.6	14718.6	12056.2	9277.7
67.5°	1783.2	1801.4	1864.7	2314.6	3798.3	8779.6	16428.9	17299.5	14895.8	11930.6	8968.6
70°	1351.7	1320.5	1389.2	1637.2	2277.0	5538.6	14132.5	15866.3	14675.7	10684.1	7166.1
72.5°	994.1	990.9	1086.5	1338.7	1753.1	2950.1	10609.0	12721.8	11989.6	8135.5	4512.2
75°	670.9	701.1	853.4	1118.7	1588.9	1913.1	7232.6	9229.5	8323.4	4619.5	1844.4
77.5°	382.2	384.3	549.7	898.6	1426.8	1539.5	4285.7	5879.9	4405.9	1536.3	547.5
80°	165.3	181.4	272.7	652.7	1183.0	1363.4	2457.4	3231.5	1782.2	325.3	177.1
82.5°	61.2	71.9	120.3	401.5	863.1	1123.0	1484.8	1542.7	604.4	114.9	110.6
85°	0.0	2.2	44.0	187.9	449.9	501.3	992.0	914.7	267.4	54.7	71.9
87.5°	0.0	0.0	0.0	19.3	59.0	186.8	308.1	343.5	64.4	19.3	17.2
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°	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8	4258.8
2.5°	4226.6	4156.9	3981.9	3806.9	3676.9	3568.5	3405.4	3316.2	3269.1	3199.2	3203.5
5°	4120.4	3978.7	3670.5	3351.7	3094.0	2842.8	2542.2	2420.9	2318.9	2260.9	2222.3
7.5°	3962.5	3753.2	3297.0	2871.8	2475.7	2036.6	1707.0	1486.9	1338.7	1284.0	1231.4
10°	3789.7	3511.7	2917.9	2328.6	1778.9	1325.8	1046.7	844.9	773.0	706.4	712.8
12.5°	3629.8	3291.6	2570.1	1837.9	1246.4	842.8	657.0	574.3	550.8	543.2	543.2
15°	3498.7	3081.2	2196.5	1381.7	854.5	605.5	526.0	503.5	494.9	492.7	492.7
17.5°	3359.2	2881.4	1859.5	1021.0	621.6	506.7	479.9	464.8	461.6	459.5	459.5
20°	3234.7	2680.7	1539.5	760.1	502.4	456.2	439.1	429.4	426.2	424.0	425.1
22.5°	3116.6	2502.5	1238.9	574.3	442.3	415.5	398.3	388.6	382.2	376.9	377.9
25°	3011.4	2330.7	996.2	470.2	398.3	374.7	357.5	343.5	329.6	323.1	322.1
27.5°	2937.3	2180.5	776.2	402.6	358.6	332.8	311.3	294.2	275.9	266.3	264.1
30°	2876.1	2028.0	614.1	355.3	318.8	294.2	267.4	242.6	223.3	213.6	209.3
32.5°	2836.4	1883.0	484.2	316.7	285.6	255.5	225.5	200.7	179.3	169.6	167.4
35°	2830.0	1761.7	396.1	284.5	255.5	223.3	192.2	165.3	147.1	137.4	135.2
37.5°	2876.1	1668.3	331.8	258.7	230.9	195.4	161.1	136.3	120.3	112.7	111.7
40°	2999.5	1609.3	287.7	237.2	208.2	169.6	137.4	116.0	99.8	92.3	92.3
42.5°	3234.7	1611.4	258.7	216.9	185.7	144.9	117.0	96.6	82.7	76.2	74.1
45°	3601.8	1684.4	234.1	196.5	164.2	125.6	99.8	79.5	65.5	60.1	60.1
47.5°	4093.5	1829.3	212.6	176.1	144.9	107.4	84.8	64.4	52.6	47.3	47.3
50°	4736.6	2062.3	194.4	158.9	128.8	92.3	68.7	52.6	40.8	36.5	35.4
52.5°	5408.6	2350.0	172.8	143.9	110.6	78.4	55.8	40.8	31.1	27.9	26.8
55°	6150.5	2631.3	152.5	128.8	90.2	65.5	44.0	32.2	22.5	19.3	19.3
57.5°	6898.7	2907.3	127.7	107.4	70.9	48.3	34.3	23.6	15.1	11.8	11.8
60°	7532.2	2996.3	108.4	87.0	53.7	34.3	24.7	15.1	8.6	5.4	5.4
62.5°	7619.1	2695.7	91.2	66.5	38.7	23.6	12.9	8.6	3.2	2.2	2.2
65°	7146.7	2190.0	76.2	50.5	25.7	11.8	5.4	3.2	1.1	0.0	0.0
67°	6403.9	1775.7	62.2	37.6	18.2	7.5	3.2	1.1	0.0	0.0	0.0
67.5°	6213.8	1693.0	60.1	35.4	16.1	6.5	2.2	1.1	0.0	0.0	0.0
70°	4876.1	1267.9	43.0	21.4	9.7	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	3030.7	717.1	31.1	12.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0
75°	1145.5	251.2	21.4	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	356.4	95.5	12.9	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	120.3	36.5	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	74.1	15.1	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.2	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	2.2	1.1	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)