

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: P528779

Luminaire Tested: **GALN-SA3D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9928 lumens
Efficiency: N/A
Efficacy: 54.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

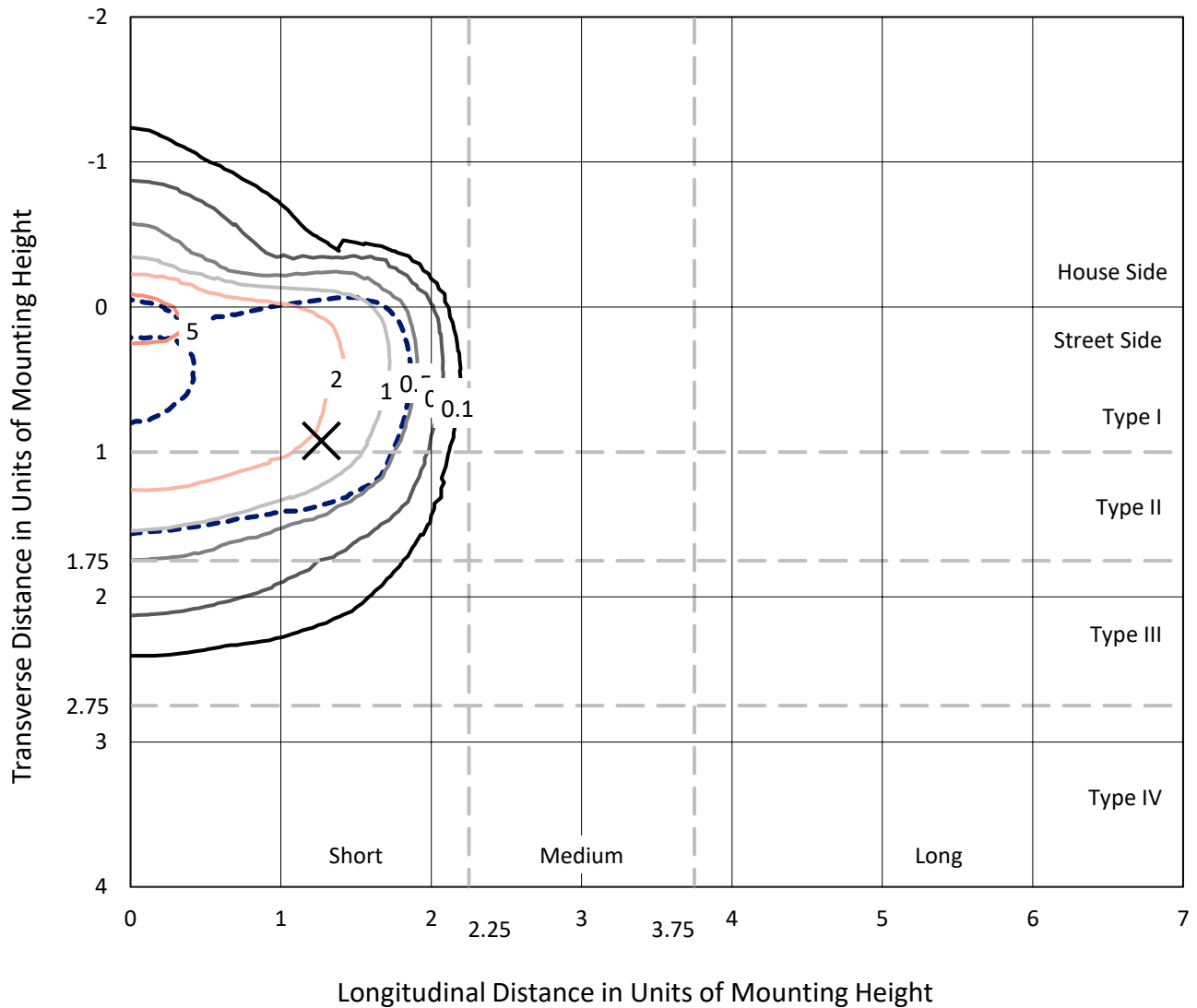
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

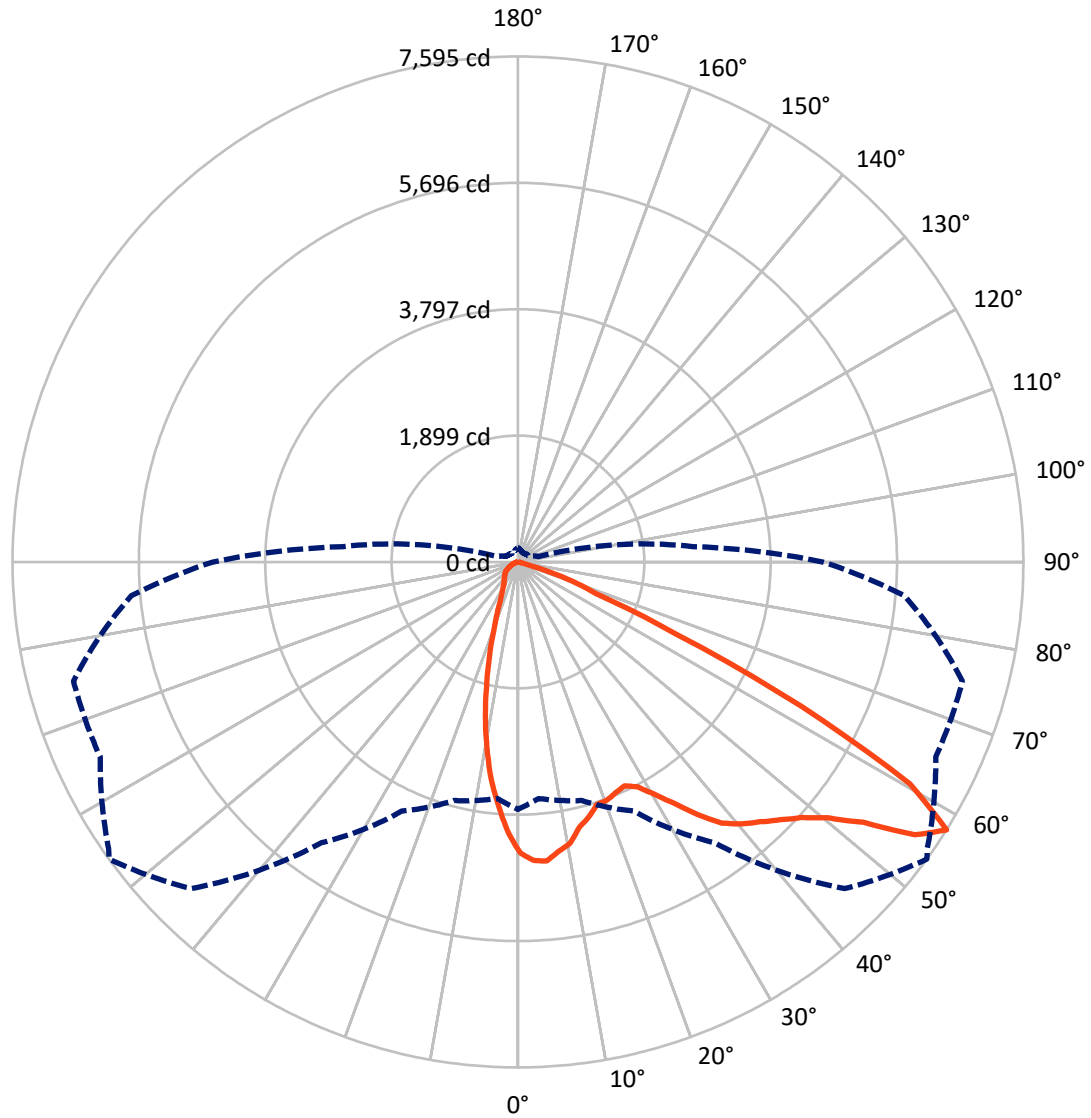
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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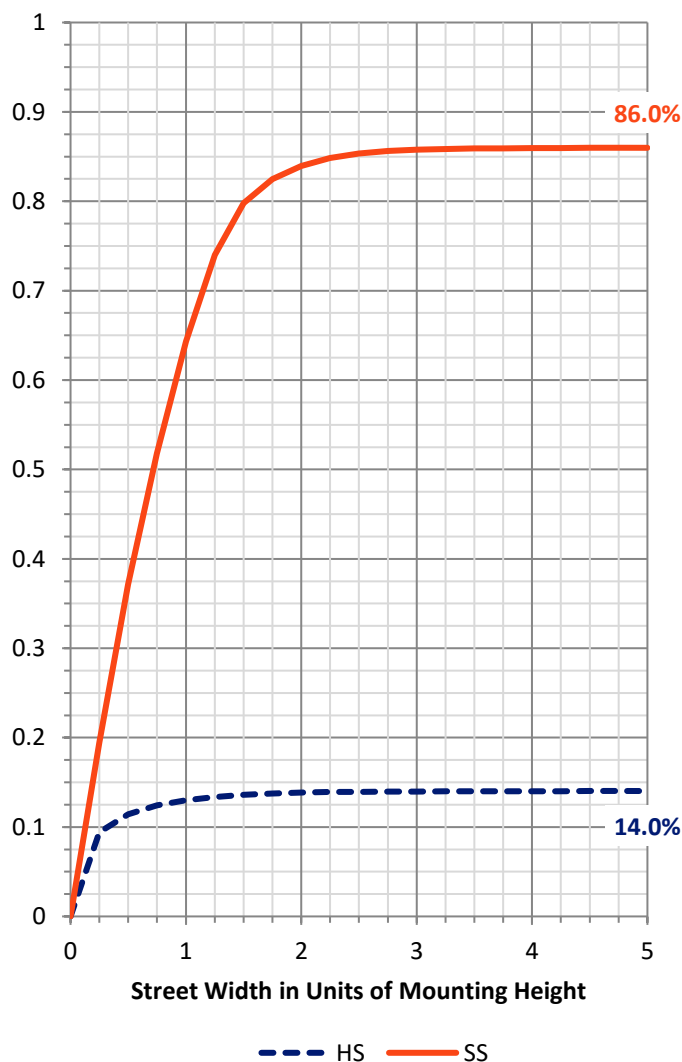
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1403.0	0.0	1403.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	8525.0	0.0	8525.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	9928.0	0.0	9928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.0	3.7
10°-20°	781.4	7.9
20°-30°	1035.4	10.4
30°-40°	1504.8	15.2
40°-50°	2231.4	22.5
50°-60°	2790.3	28.1
60°-70°	1100.6	11.1
70°-80°	109.6	1.1
80°-90°	8.5	0.1
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°	9928.0	100.0
0°-180°	9928.0	100.0

Coefficient of Utilization



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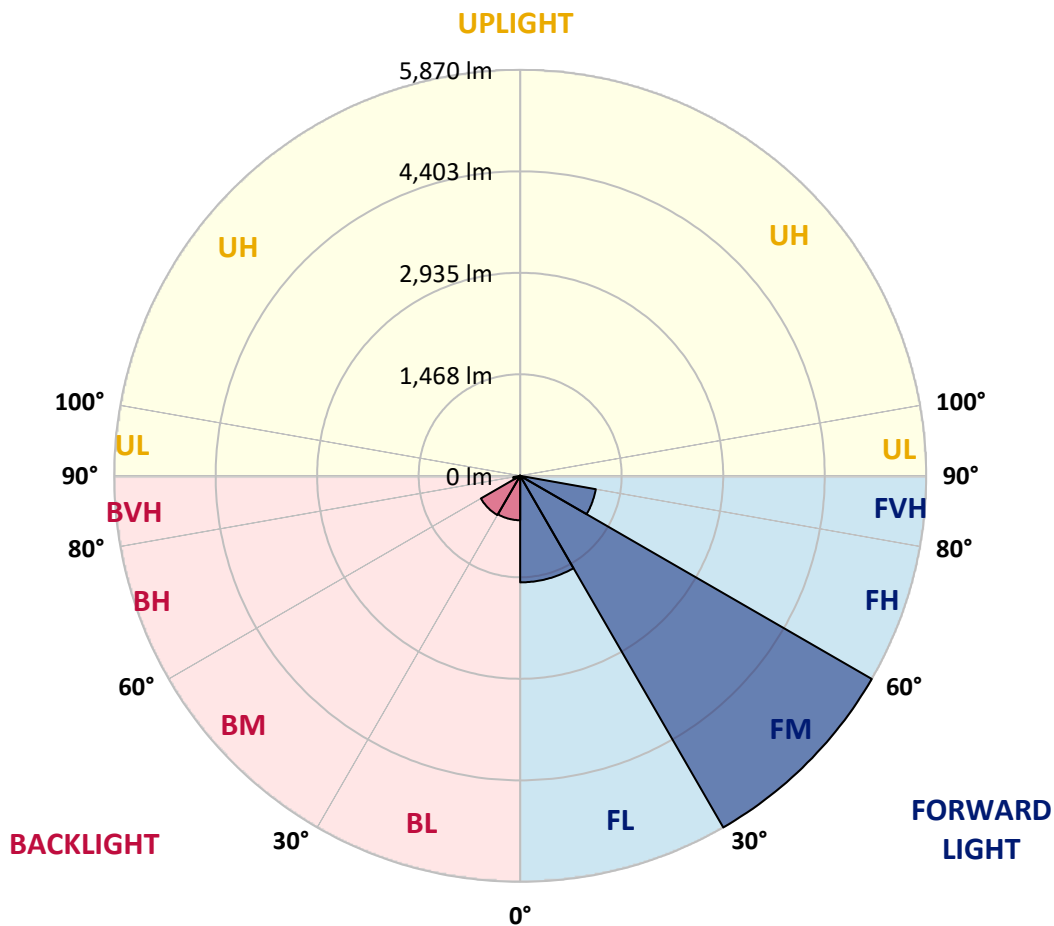
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1541.1	15.5			
FM (30°-60°)	5870.4	59.1			
FH (60°-80°)	1109.6	11.2			G1/1800
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	641.7	6.5	B2/1000		
BM (30°-60°)	656.1	6.6	B1/1000		
BH (60°-80°)	100.6	1.0	B0/110		G0/110
BVH (80°-90°)	4.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4
2.5°	4628.2	4580.2	4583.9	4567.3	4545.1	4561.7	4489.7	4506.3	4504.5	4406.6	4342.0
5°	4511.9	4563.6	4510.0	4554.3	4511.9	4558.0	4513.7	4480.5	4427.0	4355.0	4235.0
7.5°	4314.3	4264.5	4279.3	4334.6	4343.9	4447.3	4391.9	4434.3	4412.2	4270.0	4105.7
10°	3917.4	3906.4	3980.2	4054.0	4144.5	4255.3	4297.7	4273.7	4257.1	4203.6	3983.9
12.5°	3612.8	3644.2	3642.4	3764.2	3917.4	3980.2	4091.0	4087.3	4179.6	4079.9	3869.4
15°	3323.0	3339.6	3417.1	3492.8	3662.7	3841.7	3978.4	3996.8	4107.6	4037.4	3780.8
17.5°	3145.8	3121.8	3182.7	3273.1	3446.7	3681.1	3832.5	3876.8	4028.2	4013.4	3679.3
20°	2970.4	2970.4	3020.2	3127.3	3286.1	3550.1	3819.6	3806.7	4028.2	3985.7	3570.4
22.5°	2911.3	2940.8	2953.8	3035.0	3223.3	3450.4	3764.2	3788.2	4059.6	3972.8	3522.4
25°	2992.5	2953.8	2957.5	3022.1	3199.3	3402.4	3723.6	3777.1	4116.8	4037.4	3483.6
27.5°	3005.5	3044.2	3055.3	3099.6	3217.8	3417.1	3825.1	3934.0	4259.0	4188.8	3494.7
30°	3118.1	3156.8	3155.0	3230.7	3311.9	3537.1	4052.2	4074.3	4552.5	4379.0	3563.0
32.5°	3254.7	3295.3	3308.2	3396.8	3461.4	3756.8	4329.1	4386.3	4834.9	4678.0	3742.1
35°	3424.5	3409.8	3468.8	3557.4	3695.9	4078.0	4666.9	4762.9	5139.6	5065.7	3926.7
37.5°	3636.8	3618.4	3675.6	3819.6	4007.9	4458.3	4978.9	5041.7	5361.1	5425.7	4268.2
40°	3786.4	3793.7	3967.3	4161.1	4360.5	4820.2	5176.5	5237.4	5516.2	5761.7	4526.6
42.5°	4035.6	4081.7	4290.3	4526.6	4735.3	5091.6	5337.1	5396.2	5588.2	6031.2	4875.6
45°	4397.4	4377.1	4607.9	4871.9	5102.6	5374.0	5527.2	5506.9	5630.6	6298.9	5095.2
47.5°	4862.6	4866.3	5019.6	5244.8	5484.8	5619.5	5739.5	5667.5	5719.2	6581.4	5388.8
50°	5180.2	5207.9	5331.5	5562.3	5682.3	5889.1	6042.3	5998.0	5981.4	6751.2	5573.4
52.5°	5261.4	5344.5	5410.9	5698.9	5979.5	6306.3	6502.0	6596.1	6300.7	6808.4	5807.8
55°	4648.5	4722.3	4956.8	5351.9	6092.1	6967.2	7236.7	7238.6	6718.0	7063.2	5972.1
57.5°	3716.2	3566.7	3710.7	4129.7	5150.6	6939.5	7594.9	7508.1	6926.6	6913.7	5830.0
60°	2569.8	2532.9	2542.1	2708.2	3564.8	5519.8	6767.8	6880.4	6378.3	5992.4	4615.3
62.5°	2036.3	2004.9	1964.3	1945.8	2213.5	3439.3	4774.0	4932.8	4460.2	3886.0	2735.9
65°	1595.0	1576.6	1582.1	1656.0	1654.1	1951.3	2610.4	2545.8	2038.1	1506.4	860.3
67.5°	1076.3	1104.0	1126.1	1349.5	1464.0	1358.7	1260.9	1224.0	662.8	278.8	190.1
70°	605.5	609.2	633.2	843.7	1111.4	1054.1	869.5	869.5	330.5	101.5	108.9
72.5°	330.5	319.4	297.2	363.7	494.8	502.1	387.7	337.8	97.8	66.5	60.9
75°	160.6	158.8	136.6	112.6	107.1	88.6	68.3	62.8	44.3	42.5	36.9
77.5°	33.2	31.4	16.6	16.6	18.5	20.3	25.8	25.8	31.4	31.4	25.8
80°	0.0	0.0	1.8	7.4	12.9	18.5	22.2	22.2	25.8	25.8	20.3
82.5°	0.0	0.0	1.8	5.5	11.1	16.6	20.3	22.2	25.8	27.7	22.2
85°	0.0	0.0	0.0	3.7	9.2	12.9	11.1	11.1	9.2	7.4	3.7
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4	4373.4
2.5°	4308.8	4305.1	4220.2	4172.2	4085.4	4009.7	3948.8	3904.5	3904.5	3876.8	3851.0
5°	4187.0	4155.6	3974.7	3858.4	3694.1	3572.2	3489.1	3424.5	3323.0	3350.7	3241.8
7.5°	4035.6	3956.2	3716.2	3539.0	3311.9	3138.4	2961.1	2804.2	2652.8	2584.5	2621.5
10°	3873.1	3734.7	3411.6	3131.0	2848.5	2531.0	2324.2	2073.2	1918.1	1908.9	1868.3
12.5°	3701.4	3544.5	3151.3	2763.6	2392.5	2010.4	1694.7	1460.3	1355.0	1238.7	1260.9
15°	3572.2	3339.6	2861.5	2394.4	1901.5	1515.7	1198.1	1017.2	917.5	889.8	880.6
17.5°	3431.9	3182.7	2566.1	2001.2	1491.7	1091.0	862.1	775.4	736.6	736.6	731.1
20°	3286.1	3005.5	2272.6	1635.6	1118.7	814.1	690.4	662.8	660.9	659.1	659.1
22.5°	3190.1	2802.4	2006.7	1299.7	843.7	651.7	600.0	588.9	596.3	618.4	618.4
25°	3088.5	2606.7	1713.2	1002.4	653.5	559.4	529.8	537.2	555.7	576.0	568.6
27.5°	2985.1	2479.3	1436.3	786.4	535.4	489.2	478.1	494.8	515.1	533.5	528.0
30°	2961.1	2342.7	1174.1	596.3	459.7	426.4	433.8	448.6	468.9	476.3	483.7
32.5°	2998.1	2235.6	961.8	489.2	400.6	391.4	391.4	398.8	411.7	428.3	422.8
35°	3103.3	2174.7	760.6	424.6	367.4	358.1	356.3	363.7	371.1	376.6	371.1
37.5°	3263.9	2126.7	622.1	376.6	345.2	330.5	326.8	324.9	332.3	334.1	337.8
40°	3468.8	2152.6	528.0	347.1	323.1	306.5	295.4	295.4	295.4	300.9	302.8
42.5°	3690.4	2187.6	456.0	330.5	302.8	282.5	271.4	267.7	271.4	278.8	276.9
45°	3923.0	2255.9	409.8	304.6	284.3	258.5	243.7	240.0	249.2	264.0	262.1
47.5°	4140.8	2353.8	374.8	288.0	265.8	241.8	223.4	219.7	236.3	256.6	258.5
50°	4358.6	2523.6	361.8	275.1	252.9	225.2	208.6	204.9	223.4	249.2	254.8
52.5°	4609.7	2706.4	352.6	258.5	238.1	212.3	193.8	190.1	210.5	243.7	245.5
55°	4774.0	2861.5	345.2	228.9	210.5	192.0	177.2	175.4	197.5	227.1	234.5
57.5°	4582.0	2645.5	319.4	199.4	179.1	169.8	156.9	156.9	175.4	203.1	208.6
60°	3474.4	1740.9	227.1	160.6	151.4	145.8	140.3	140.3	155.1	175.4	177.2
62.5°	2034.4	937.8	145.8	129.2	129.2	123.7	114.5	114.5	129.2	140.3	142.1
65°	603.7	300.9	118.2	110.8	108.9	99.7	90.5	88.6	99.7	105.2	103.4
67.5°	173.5	138.5	97.8	92.3	90.5	75.7	70.2	68.3	70.2	66.5	64.6
70°	103.4	94.2	75.7	77.5	68.3	55.4	49.8	48.0	44.3	38.8	35.1
72.5°	57.2	57.2	55.4	59.1	48.0	36.9	31.4	25.8	20.3	16.6	14.8
75°	35.1	36.9	38.8	40.6	31.4	24.0	20.3	12.9	7.4	3.7	3.7
77.5°	24.0	25.8	27.7	29.5	25.8	22.2	16.6	9.2	1.8	0.0	0.0
80°	18.5	20.3	24.0	25.8	27.7	29.5	22.2	9.2	1.8	0.0	0.0
82.5°	20.3	22.2	27.7	25.8	25.8	25.8	20.3	9.2	1.8	0.0	0.0
85°	3.7	5.5	9.2	9.2	12.9	16.6	12.9	3.7	0.0	0.0	0.0
87.5°	0.0	0.0	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)