

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: P528233

Luminaire Tested: **GALN-SA3B-740-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528233  
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-SA3B-740-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 800mA 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: 9934 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

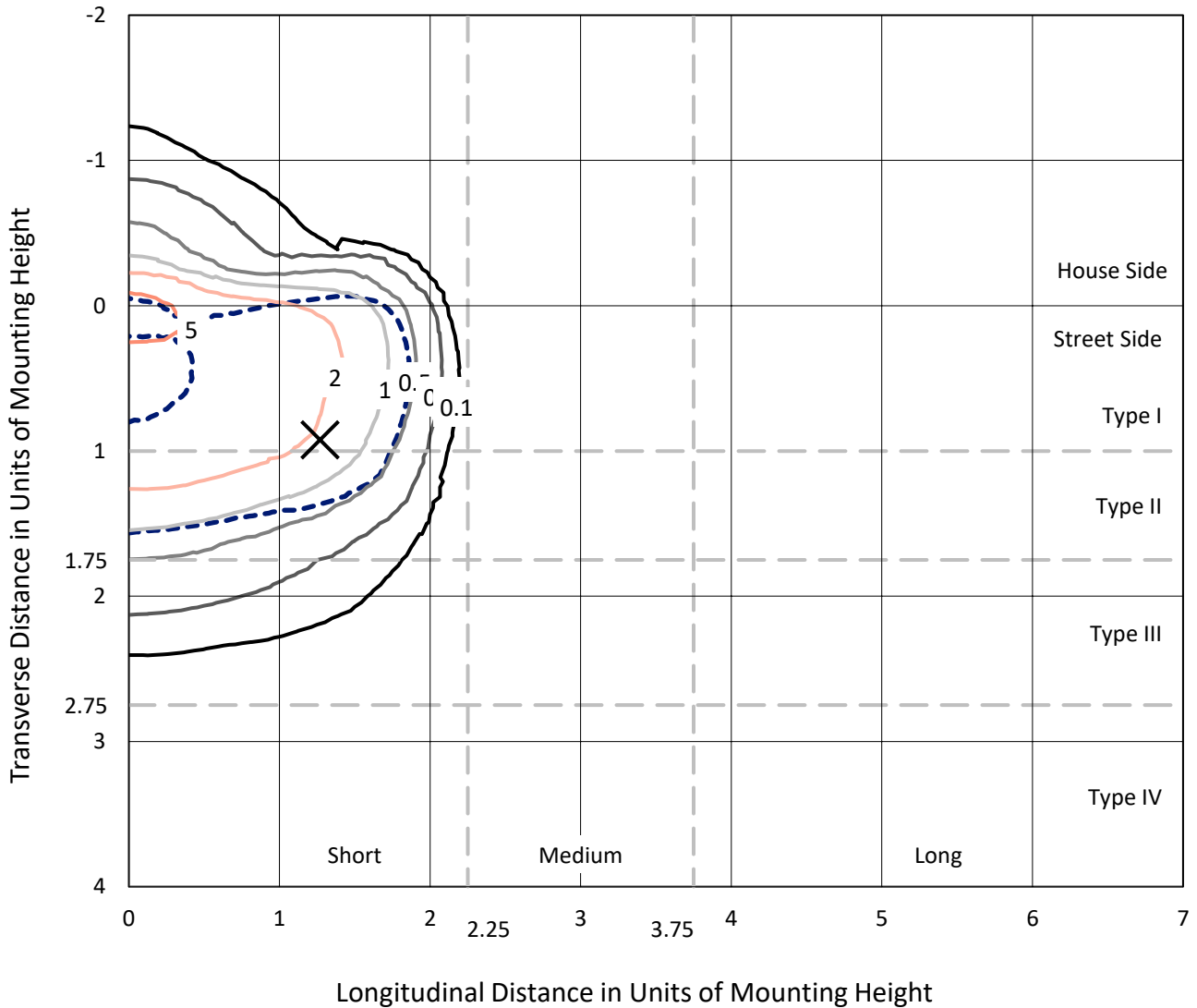
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

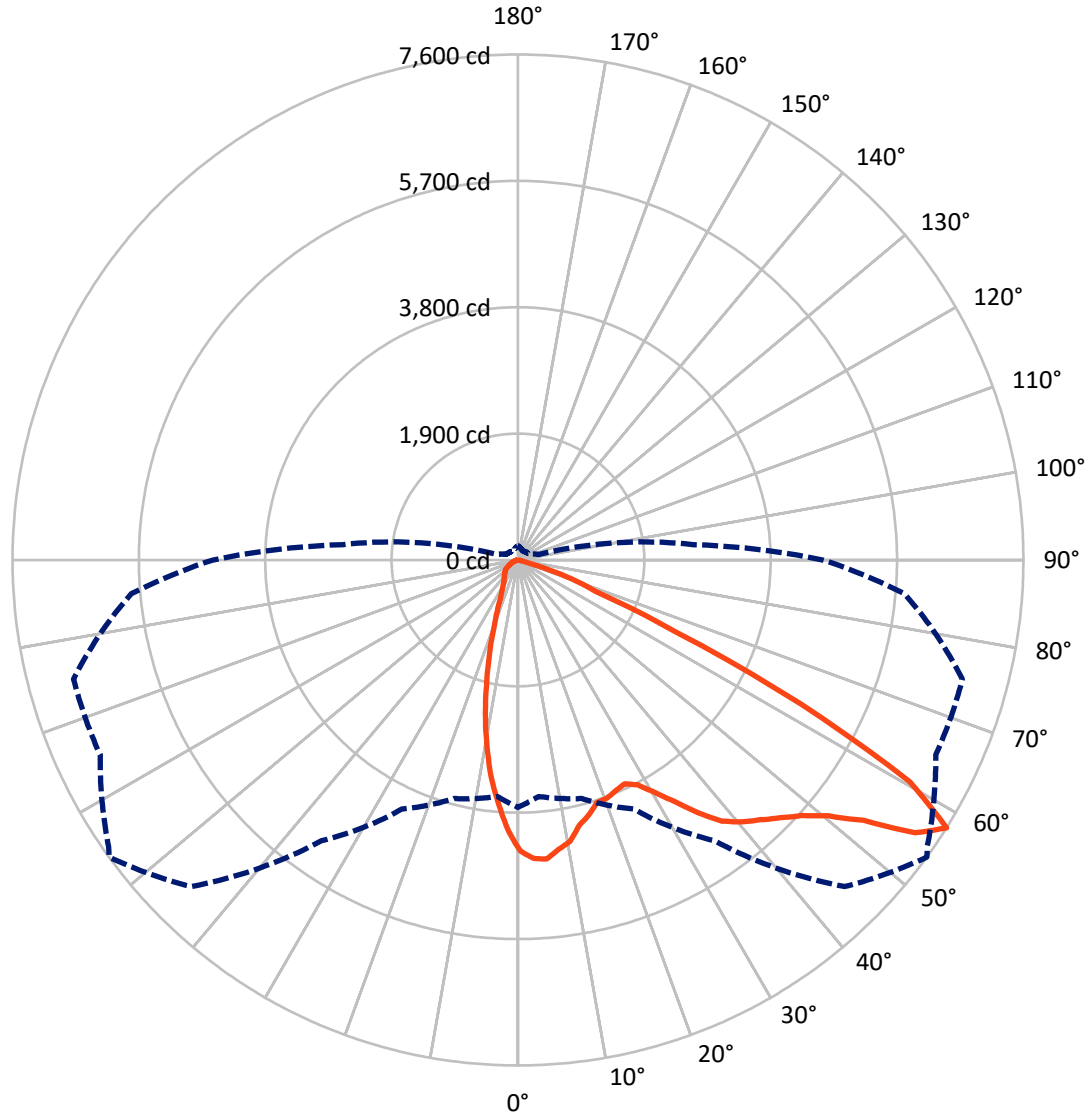
✕ Max cd  
 - - - 1/2 Max cd



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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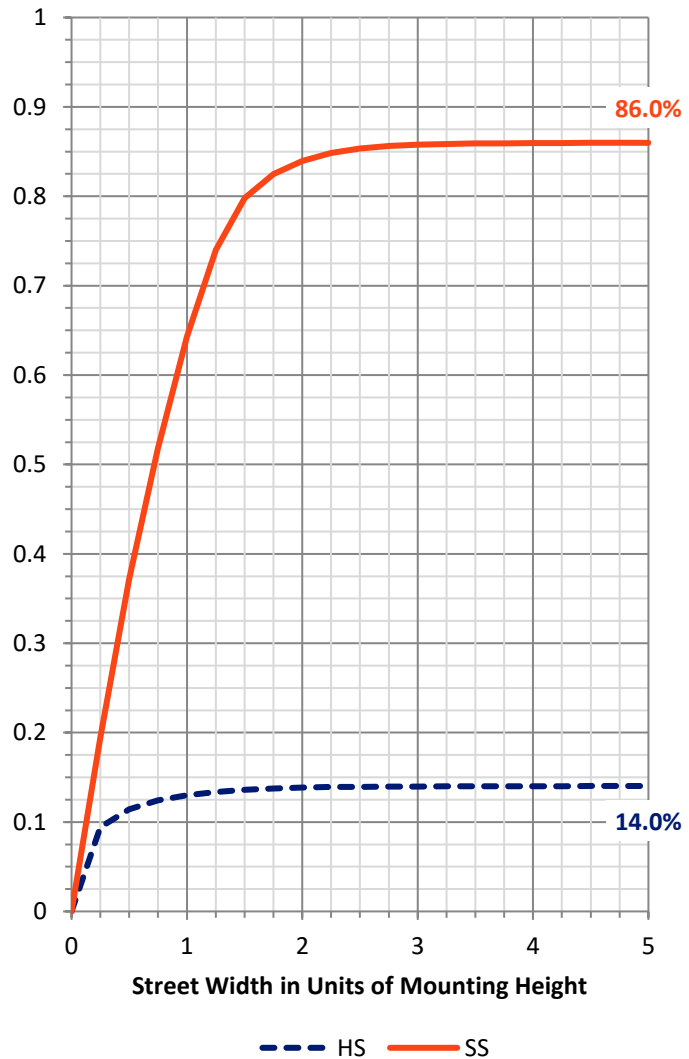
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1403.8	0.0	1403.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8530.2	0.0	8530.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	9934.0	0.0	9934.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	366.2	3.7
10°-20°	781.8	7.9
20°-30°	1036.1	10.4
30°-40°	1505.7	15.2
40°-50°	2232.8	22.5
50°-60°	2792.0	28.1
60°-70°	1101.3	11.1
70°-80°	109.7	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°	9934.0	100.0
0°-180°	9934.0	100.0

**Coefficient of Utilization**



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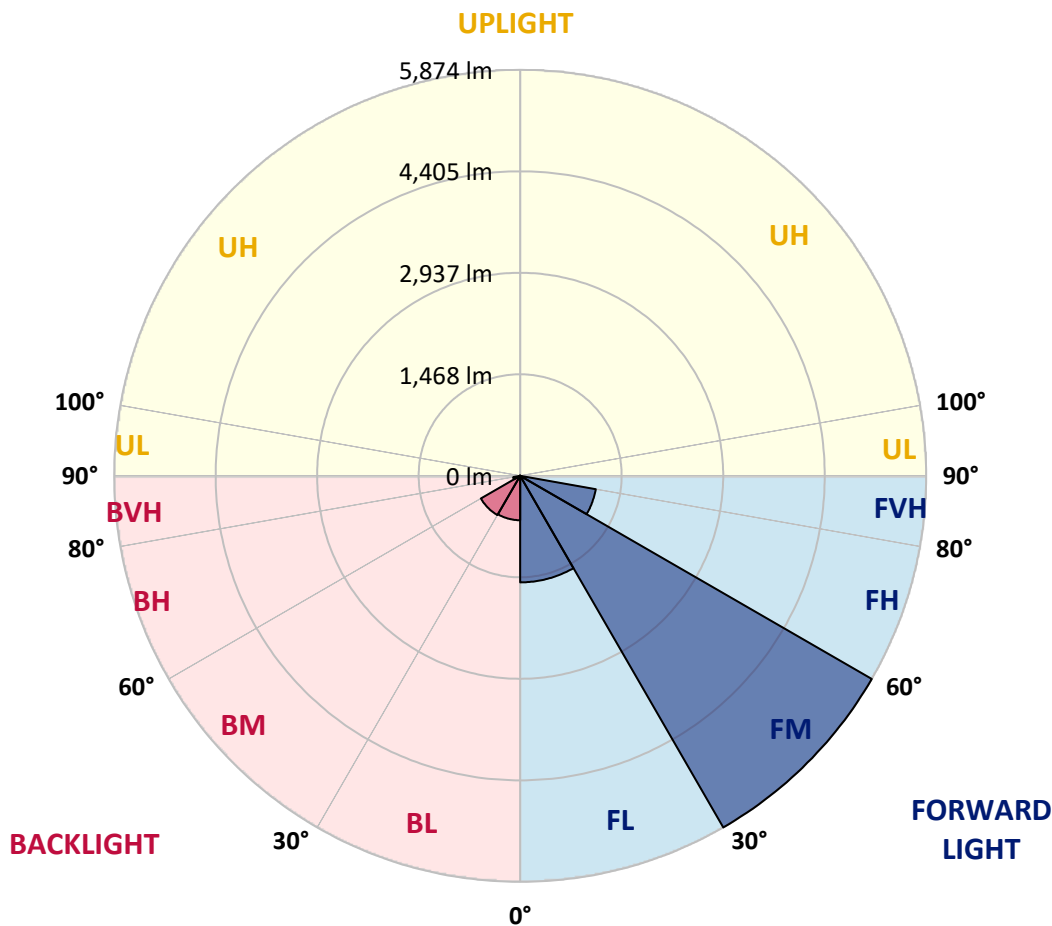
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1542.0	15.5			
FM (30°-60°)	5874.0	59.1			
FH (60°-80°)	1110.3	11.2			G1/1800
FVH (80°-90°)	3.9	0.0			G0/10
BL (0°-30°)	642.0	6.5	B2/1000		
BM (30°-60°)	656.5	6.6	B1/1000		
BH (60°-80°)	100.7	1.0	B0/110		G0/110
BVH (80°-90°)	4.7	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1
2.5°	4631.0	4582.9	4586.6	4570.0	4547.9	4564.5	4492.4	4509.1	4507.2	4409.3	4344.7
5°	4514.6	4566.3	4512.8	4557.1	4514.6	4560.8	4516.4	4483.2	4429.6	4357.6	4237.5
7.5°	4316.9	4267.1	4281.9	4337.3	4346.5	4449.9	4394.5	4437.0	4414.9	4272.6	4108.2
10°	3919.8	3908.7	3982.6	4056.5	4147.0	4257.8	4300.3	4276.3	4259.7	4206.1	3986.3
12.5°	3615.0	3646.4	3644.6	3766.5	3919.8	3982.6	4093.4	4089.7	4182.1	4082.4	3871.8
15°	3325.0	3341.6	3419.2	3494.9	3664.9	3844.1	3980.8	3999.2	4110.1	4039.9	3783.1
17.5°	3147.7	3123.6	3184.6	3275.1	3448.8	3683.4	3834.8	3879.2	4030.6	4015.9	3681.5
20°	2972.2	2972.2	3022.0	3129.2	3288.0	3552.2	3821.9	3809.0	4030.6	3988.1	3572.5
22.5°	2913.1	2942.6	2955.5	3036.8	3225.2	3452.5	3766.5	3790.5	4062.0	3975.2	3524.5
25°	2994.3	2955.5	2959.2	3023.9	3201.2	3404.4	3725.8	3779.4	4119.3	4039.9	3485.7
27.5°	3007.3	3046.1	3057.1	3101.5	3219.7	3419.2	3827.4	3936.4	4261.5	4191.3	3496.8
30°	3120.0	3158.7	3156.9	3232.6	3313.9	3539.3	4054.6	4076.8	4555.2	4381.6	3565.1
32.5°	3256.6	3297.3	3310.2	3398.9	3463.5	3759.1	4331.7	4389.0	4837.9	4680.9	3744.3
35°	3426.6	3411.8	3470.9	3559.6	3698.1	4080.5	4669.8	4765.8	5142.7	5068.8	3929.0
37.5°	3639.0	3620.5	3677.8	3821.9	4010.3	4461.0	4981.9	5044.8	5364.3	5429.0	4270.8
40°	3788.6	3796.0	3969.7	4163.6	4363.1	4823.1	5179.6	5240.6	5519.5	5765.2	4529.4
42.5°	4038.0	4084.2	4292.9	4529.4	4738.1	5094.6	5340.3	5399.4	5591.5	6034.9	4878.5
45°	4400.1	4379.8	4610.7	4874.8	5105.7	5377.3	5530.6	5510.3	5634.0	6302.7	5098.3
47.5°	4865.6	4869.3	5022.6	5247.9	5488.1	5622.9	5743.0	5671.0	5722.7	6585.3	5392.0
50°	5183.3	5211.0	5334.8	5565.7	5685.7	5892.6	6045.9	6001.6	5985.0	6755.3	5576.8
52.5°	5264.6	5347.7	5414.2	5702.4	5983.1	6310.1	6505.9	6600.1	6304.6	6812.5	5811.3
55°	4651.3	4725.2	4959.8	5355.1	6095.8	6971.4	7241.1	7242.9	6722.0	7067.5	5975.8
57.5°	3718.5	3568.8	3712.9	4132.2	5153.7	6943.7	7599.5	7512.6	6930.8	6917.8	5833.5
60°	2571.3	2534.4	2543.6	2709.9	3567.0	5523.2	6771.9	6884.6	6382.1	5996.1	4618.0
62.5°	2037.5	2006.1	1965.4	1947.0	2214.8	3441.4	4776.9	4935.8	4462.9	3888.4	2737.6
65°	1596.0	1577.5	1583.1	1657.0	1655.1	1952.5	2612.0	2547.3	2039.3	1507.3	860.8
67.5°	1076.9	1104.6	1126.8	1350.3	1464.8	1359.6	1261.7	1224.7	663.2	278.9	190.3
70°	605.9	609.6	633.6	844.2	1112.0	1054.8	870.0	870.0	330.7	101.6	109.0
72.5°	330.7	319.6	297.4	363.9	495.1	502.4	387.9	338.0	97.9	66.5	61.0
75°	160.7	158.9	136.7	112.7	107.1	88.7	68.3	62.8	44.3	42.5	36.9
77.5°	33.2	31.4	16.6	16.6	18.5	20.3	25.9	25.9	31.4	31.4	25.9
80°	0.0	0.0	1.8	7.4	12.9	18.5	22.2	22.2	25.9	25.9	20.3
82.5°	0.0	0.0	1.8	5.5	11.1	16.6	20.3	22.2	25.9	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°	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1	4376.1
2.5°	4311.4	4307.7	4222.7	4174.7	4087.9	4012.2	3951.2	3906.9	3906.9	3879.2	3853.3
5°	4189.5	4158.1	3977.1	3860.7	3696.3	3574.4	3491.2	3426.6	3325.0	3352.7	3243.7
7.5°	4038.0	3958.6	3718.5	3541.1	3313.9	3140.3	2962.9	2805.9	2654.5	2586.1	2623.1
10°	3875.5	3736.9	3413.7	3132.9	2850.3	2532.5	2325.6	2074.4	1919.3	1910.0	1869.4
12.5°	3703.7	3546.7	3153.2	2765.3	2394.0	2011.6	1695.7	1461.1	1355.9	1239.5	1261.7
15°	3574.4	3341.6	2863.2	2395.8	1902.6	1516.6	1198.8	1017.8	918.1	890.4	881.1
17.5°	3434.0	3184.6	2567.6	2002.4	1492.6	1091.7	862.7	775.8	737.0	737.0	731.5
20°	3288.0	3007.3	2273.9	1636.6	1119.4	814.6	690.9	663.2	661.3	659.5	659.5
22.5°	3192.0	2804.1	2007.9	1300.4	844.2	652.1	600.3	589.3	596.7	618.8	618.8
25°	3090.4	2608.3	1714.2	1003.0	653.9	559.7	530.2	537.5	556.0	576.3	568.9
27.5°	2987.0	2480.8	1437.1	786.9	535.7	489.5	478.4	495.1	515.4	533.8	528.3
30°	2962.9	2344.1	1174.8	596.7	460.0	426.7	434.1	448.9	469.2	476.6	484.0
32.5°	2999.9	2237.0	962.4	489.5	400.8	391.6	391.6	399.0	411.9	428.6	423.0
35°	3105.2	2176.0	761.1	424.9	367.6	358.4	356.5	363.9	371.3	376.8	371.3
37.5°	3265.9	2128.0	622.5	376.8	345.4	330.7	327.0	325.1	332.5	334.3	338.0
40°	3470.9	2153.9	528.3	347.3	323.3	306.6	295.6	295.6	295.6	301.1	302.9
42.5°	3692.6	2189.0	456.3	330.7	302.9	282.6	271.5	267.8	271.5	278.9	277.1
45°	3925.3	2257.3	410.1	304.8	284.5	258.6	243.8	240.1	249.4	264.2	262.3
47.5°	4143.3	2355.2	375.0	288.2	266.0	242.0	223.5	219.8	236.4	256.8	258.6
50°	4361.3	2525.1	362.1	275.2	253.1	225.4	208.7	205.0	223.5	249.4	254.9
52.5°	4612.5	2708.0	352.8	258.6	238.3	212.4	194.0	190.3	210.6	243.8	245.7
55°	4776.9	2863.2	345.4	229.1	210.6	192.1	177.3	175.5	197.7	227.2	234.6
57.5°	4584.8	2647.1	319.6	199.5	179.2	169.9	157.0	157.0	175.5	203.2	208.7
60°	3476.5	1741.9	227.2	160.7	151.5	145.9	140.4	140.4	155.2	175.5	177.3
62.5°	2035.6	938.4	145.9	129.3	129.3	123.8	114.5	114.5	129.3	140.4	142.2
65°	604.0	301.1	118.2	110.8	109.0	99.7	90.5	88.7	99.7	105.3	103.4
67.5°	173.6	138.5	97.9	92.4	90.5	75.7	70.2	68.3	70.2	66.5	64.7
70°	103.4	94.2	75.7	77.6	68.3	55.4	49.9	48.0	44.3	38.8	35.1
72.5°	57.3	57.3	55.4	59.1	48.0	36.9	31.4	25.9	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	25.9	27.7	29.6	25.9	22.2	16.6	9.2	1.8	0.0	0.0
80°	18.5	20.3	24.0	25.9	27.7	29.6	22.2	9.2	1.8	0.0	0.0
82.5°	20.3	22.2	27.7	25.9	25.9	25.9	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)