

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: P452519

Luminaire Tested: **GALN-SA3C-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452519  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3C-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17397 lumens  
Efficiency: N/A  
Efficacy: 108.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

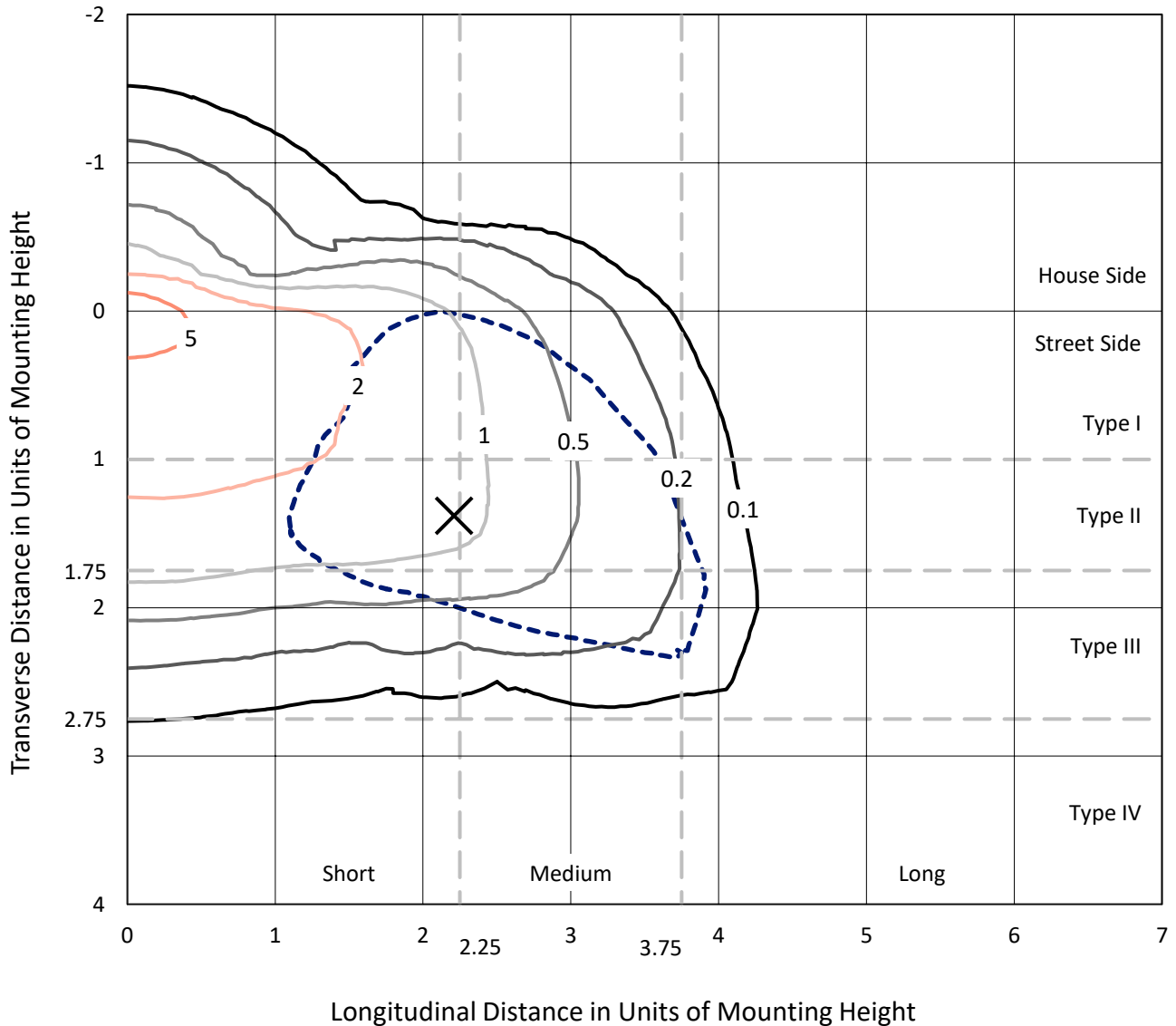
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

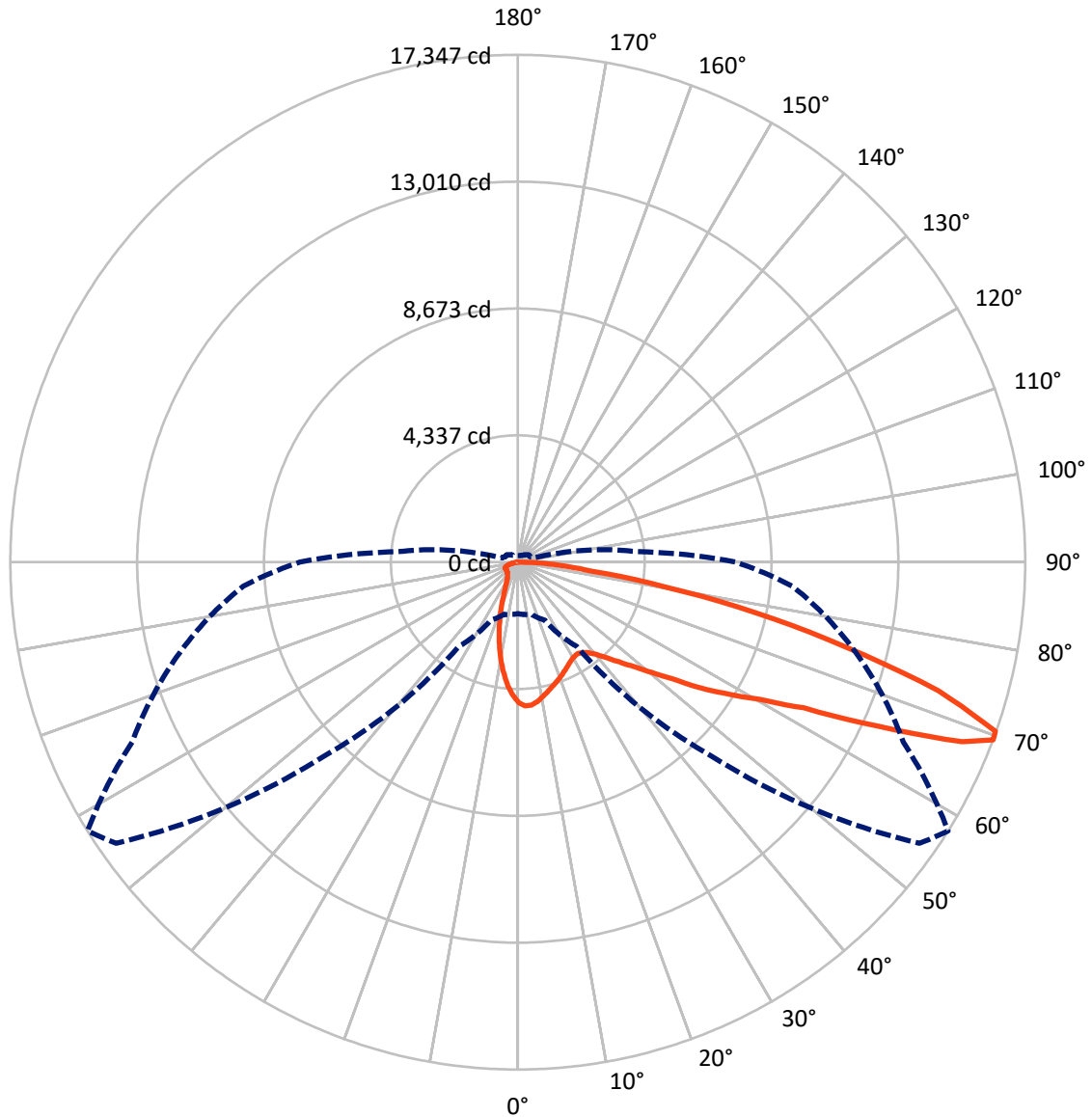
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2549.5	0.0	2549.5
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	14847.5	0.0	14847.5
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	17397.0	0.0	17397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	408.3	2.3
10°-20°	896.5	5.2
20°-30°	1158.3	6.7
30°-40°	1504.4	8.6
40°-50°	2187.2	12.6
50°-60°	3490.0	20.1
60°-70°	4662.2	26.8
70°-80°	2687.6	15.4
80°-90°	402.5	2.3
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°	17397.0	100.0
0°-180°	17397.0	100.0

**Coefficient of Utilization**



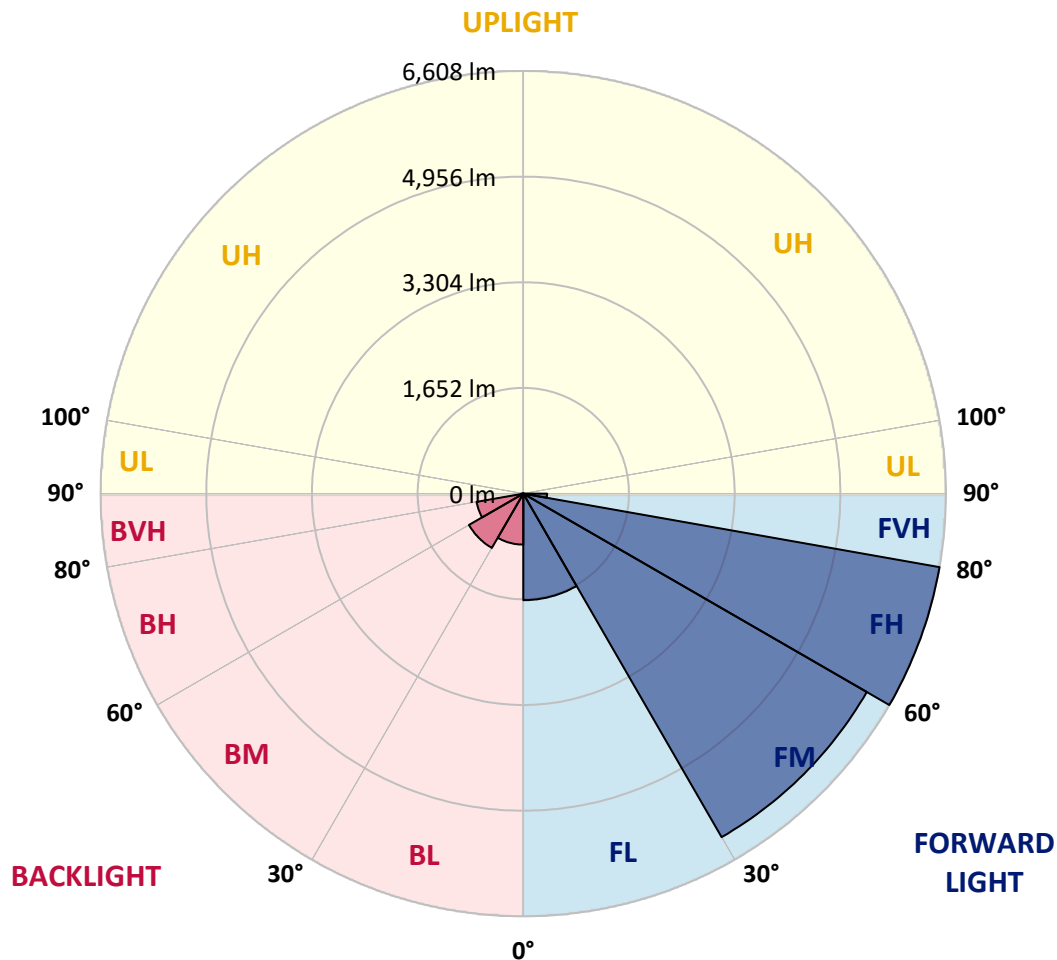
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1666.2	9.6			
FM (30°-60°)	6201.1	35.6			
FH (60°-80°)	6608.5	38.0			G3/7500
FVH (80°-90°)	371.7	2.1			G3/500
BL (0°-30°)	796.9	4.6	B2/1000		
BM (30°-60°)	980.5	5.6	B1/1000		
BH (60°-80°)	741.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	30.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5
2.5°	4986.0	4999.6	4995.7	4990.9	4983.1	4961.8	4926.9	4921.0	4898.7	4851.2	4792.0
5°	4909.4	4921.0	4922.0	4928.8	4938.5	4934.6	4909.4	4906.5	4873.5	4809.5	4710.5
7.5°	4646.5	4662.0	4695.9	4733.8	4767.7	4799.8	4807.5	4812.4	4792.0	4718.3	4586.3
10°	4350.5	4366.1	4381.6	4437.9	4521.3	4600.9	4666.8	4675.6	4680.4	4612.5	4451.4
12.5°	4022.6	4054.6	4087.6	4171.0	4282.6	4407.8	4524.2	4542.6	4575.6	4524.2	4335.0
15°	3744.1	3777.1	3824.7	3899.4	4034.2	4214.7	4378.7	4408.7	4473.8	4447.6	4226.3
17.5°	3551.1	3562.7	3595.7	3681.1	3826.6	4016.8	4236.0	4296.2	4400.0	4393.2	4133.2
20°	3398.7	3413.3	3433.7	3486.1	3637.4	3838.2	4103.1	4180.7	4321.4	4344.7	4041.0
22.5°	3334.7	3345.4	3342.5	3370.6	3473.4	3675.2	3968.3	4060.4	4251.6	4311.7	3955.6
25°	3338.6	3348.3	3333.7	3326.9	3388.1	3531.7	3827.6	3945.0	4195.3	4289.4	3878.0
27.5°	3403.6	3410.4	3383.2	3356.0	3360.9	3442.4	3711.1	3841.2	4147.8	4299.1	3813.0
30°	3490.9	3503.5	3486.1	3453.1	3417.2	3421.0	3636.4	3764.5	4125.4	4333.1	3782.0
32.5°	3603.5	3615.1	3607.3	3581.1	3534.6	3483.1	3618.0	3736.4	4127.4	4402.0	3775.2
35°	3721.8	3745.1	3757.7	3755.8	3717.9	3628.7	3690.8	3788.8	4173.9	4517.4	3815.0
37.5°	3855.7	3875.1	3929.5	3964.4	3929.5	3825.6	3854.7	3922.7	4276.8	4684.3	3902.3
40°	3985.7	4014.8	4094.4	4203.1	4189.5	4098.3	4105.1	4149.7	4458.2	4932.7	4073.0
42.5°	4121.6	4156.5	4295.2	4456.3	4488.3	4417.5	4435.9	4475.7	4716.3	5277.1	4366.1
45°	4296.2	4337.9	4508.7	4709.5	4835.6	4792.0	4844.4	4863.8	5061.7	5725.4	4752.2
47.5°	4521.3	4569.8	4780.3	5030.7	5209.2	5249.0	5340.2	5328.5	5489.6	6256.1	5252.8
50°	4900.7	4927.8	5126.7	5381.9	5627.4	5806.9	5905.8	5924.3	6020.3	6772.2	5812.7
52.5°	5351.8	5376.1	5519.7	5742.8	6050.4	6430.7	6675.2	6615.1	6638.3	7400.9	6467.6
55°	5859.2	5900.0	5991.2	6139.6	6538.4	7098.2	7589.2	7603.7	7345.6	8002.5	7095.3
57.5°	6252.2	6321.1	6477.3	6688.8	7194.3	7840.5	8500.2	8509.9	8180.0	8644.8	7788.1
60°	6054.3	6135.8	6492.8	7008.0	8054.9	9135.7	9588.8	9533.5	8992.1	9376.3	8633.1
62.5°	5200.5	5215.0	5734.1	6539.4	8319.8	10868.6	11209.1	10975.3	10075.9	10303.9	9491.8
65°	3365.7	3460.8	3872.2	5000.6	7449.5	11830.1	14048.0	13507.6	11595.3	11356.6	10210.7
67.5°	2124.8	2100.6	2271.3	2855.4	5123.8	10983.1	16470.7	16385.3	13582.3	12021.2	10039.0
69°	1761.9	1789.1	1847.3	2188.8	3525.8	9377.3	16756.9	17346.8	14545.8	11968.8	9415.2
70°	1598.0	1610.6	1671.7	1940.5	2720.5	7854.0	16287.3	17320.6	14924.1	11749.5	8963.0
72.5°	1268.1	1267.1	1371.9	1614.5	2033.6	4483.5	13373.7	15037.7	14501.1	10728.9	7405.8
75°	963.4	979.0	1094.4	1366.1	1873.5	2449.8	9332.7	11580.7	11581.7	8474.0	4621.2
77.5°	694.7	704.4	839.3	1146.8	1764.9	1986.1	6216.3	8306.2	7808.4	3882.9	1452.4
80°	455.0	460.9	563.7	908.1	1591.2	1873.5	3685.9	5084.0	3683.0	1030.4	480.3
82.5°	249.4	278.5	344.4	588.0	1276.8	1730.9	2240.3	2573.1	1381.6	458.9	250.3
85°	125.2	132.9	194.0	343.5	834.4	1432.1	1560.1	1475.7	713.1	228.0	130.0
87.5°	36.9	46.6	80.5	132.9	338.6	746.1	868.4	779.1	274.6	82.5	27.2
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°	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5	4807.5
2.5°	4767.7	4750.3	4672.6	4602.8	4538.8	4470.8	4413.6	4363.1	4368.0	4369.0	4317.5
5°	4659.1	4619.3	4471.8	4334.0	4217.6	4070.1	3944.0	3862.5	3821.8	3767.4	3786.8
7.5°	4511.6	4434.9	4230.2	4001.2	3786.8	3595.7	3388.1	3245.4	3154.2	3065.9	3077.6
10°	4359.3	4236.0	3938.2	3635.5	3358.0	3052.4	2787.5	2560.4	2391.6	2328.6	2286.8
12.5°	4203.1	4041.0	3662.6	3260.0	2876.7	2511.0	2135.5	1892.0	1705.7	1606.7	1619.3
15°	4060.4	3863.5	3375.4	2884.5	2386.8	1951.1	1576.6	1344.7	1214.7	1187.6	1203.1
17.5°	3928.5	3670.4	3106.7	2519.7	1938.5	1463.1	1184.7	1053.7	1001.3	986.7	985.8
20°	3792.6	3506.4	2804.9	2129.7	1510.7	1134.2	972.2	911.1	901.3	907.2	908.1
22.5°	3654.9	3303.6	2494.5	1742.5	1203.1	927.5	849.9	833.4	841.2	854.8	856.7
25°	3527.8	3125.1	2195.6	1403.0	960.5	815.0	777.2	777.2	794.6	815.0	816.0
27.5°	3423.0	2952.4	1897.8	1113.8	804.3	733.5	720.9	727.7	751.9	767.5	768.4
30°	3336.6	2791.4	1616.4	892.6	707.3	668.5	665.6	677.2	694.7	709.2	710.2
32.5°	3271.6	2649.7	1353.5	750.0	640.4	619.0	618.0	626.8	636.5	640.4	644.2
35°	3246.4	2532.3	1112.9	659.8	595.7	582.1	582.1	581.2	585.1	587.0	588.9
37.5°	3266.8	2442.1	926.6	601.5	562.7	553.0	547.2	541.4	539.5	539.5	540.4
40°	3353.1	2394.5	787.8	563.7	539.5	524.9	514.2	507.4	500.6	502.6	504.5
42.5°	3536.5	2403.3	693.7	538.5	519.1	498.7	483.2	475.4	470.6	476.4	475.4
45°	3828.5	2490.6	633.6	521.0	498.7	472.5	458.0	450.2	450.2	458.9	461.8
47.5°	4237.0	2657.5	601.5	507.4	483.2	452.1	437.6	431.8	433.7	448.2	449.2
50°	4735.7	2947.6	595.7	500.6	475.4	437.6	421.1	415.3	420.1	435.6	437.6
52.5°	5285.8	3321.1	623.9	501.6	468.6	428.8	407.5	398.8	403.6	416.2	420.1
55°	5937.8	3788.8	696.6	505.5	458.9	424.0	397.8	378.4	384.2	392.9	393.9
57.5°	6603.4	4378.7	824.7	506.5	451.2	415.3	381.3	356.1	356.1	361.9	364.8
60°	7416.5	5021.0	993.5	507.4	452.1	402.6	359.0	330.8	327.0	329.9	330.8
62.5°	8223.7	5558.5	1021.7	504.5	461.8	390.0	334.7	305.6	298.8	297.9	295.9
65°	8579.8	5458.5	837.3	490.9	472.5	382.3	315.3	281.4	269.7	265.8	265.8
67.5°	7999.6	4617.3	629.7	472.5	465.7	374.5	296.9	261.0	247.4	239.6	239.6
69°	7454.3	4107.0	565.6	459.9	448.2	361.9	285.2	250.3	233.8	225.1	222.2
70°	7033.2	3755.8	538.5	449.2	431.8	347.3	276.5	242.6	224.1	214.4	212.5
72.5°	5612.8	2946.6	471.5	408.5	367.7	292.0	245.5	218.3	200.8	190.2	187.3
75°	3234.8	1597.0	391.0	355.1	295.9	227.0	207.6	190.2	176.6	166.9	164.0
77.5°	995.5	617.1	283.3	280.4	217.3	175.6	165.9	159.1	149.4	138.7	136.8
80°	419.1	314.4	192.1	189.2	144.6	122.2	119.3	118.4	114.5	105.8	102.8
82.5°	229.9	177.6	133.9	116.4	87.3	70.8	73.7	74.7	71.8	63.1	57.2
85°	112.5	97.0	65.0	52.4	39.8	25.2	24.3	29.1	27.2	19.4	21.3
87.5°	22.3	27.2	17.5	7.8	3.9	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)