

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: P452896

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452896  
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-SA3D-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1200mA 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: 16826 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

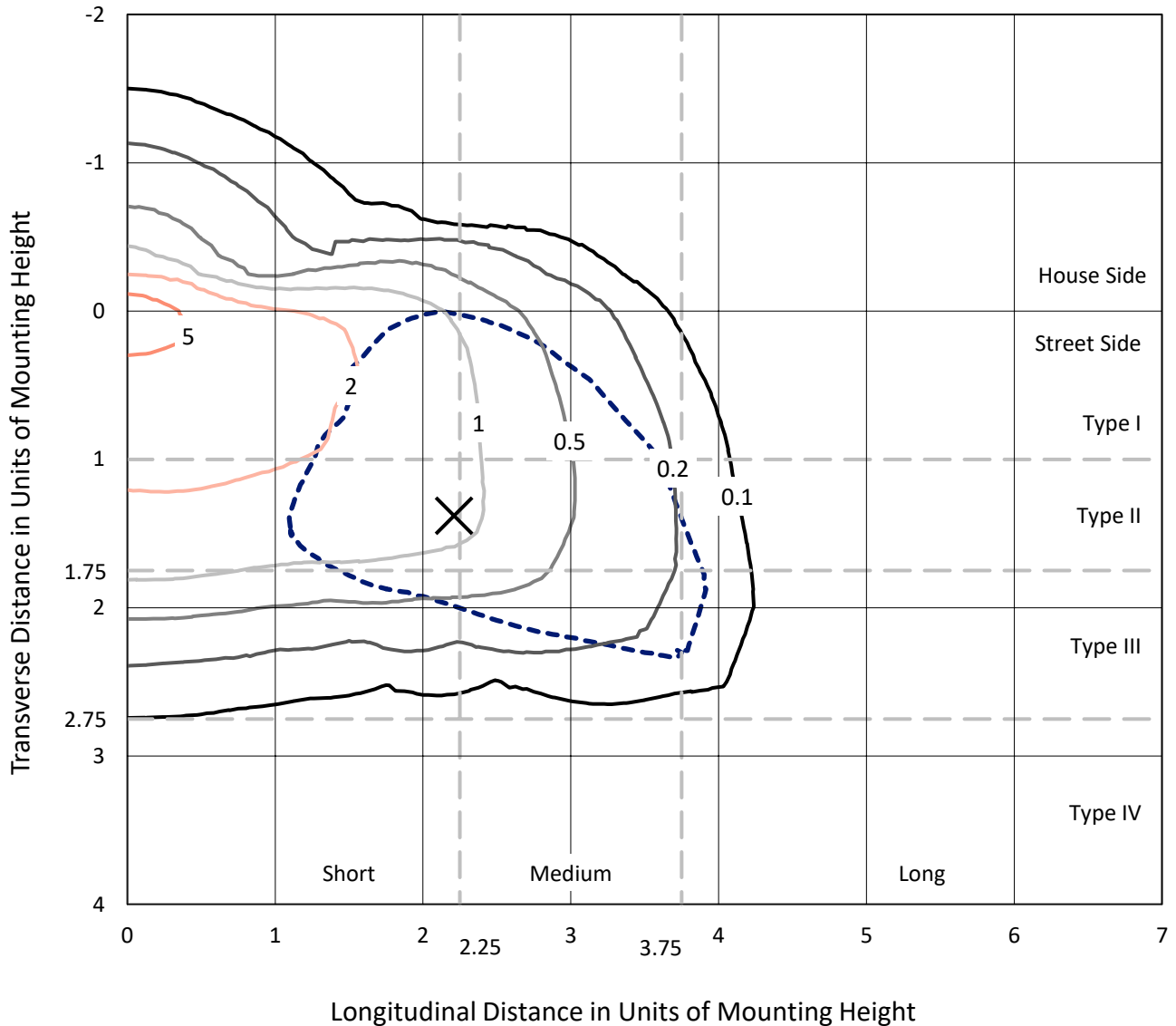
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

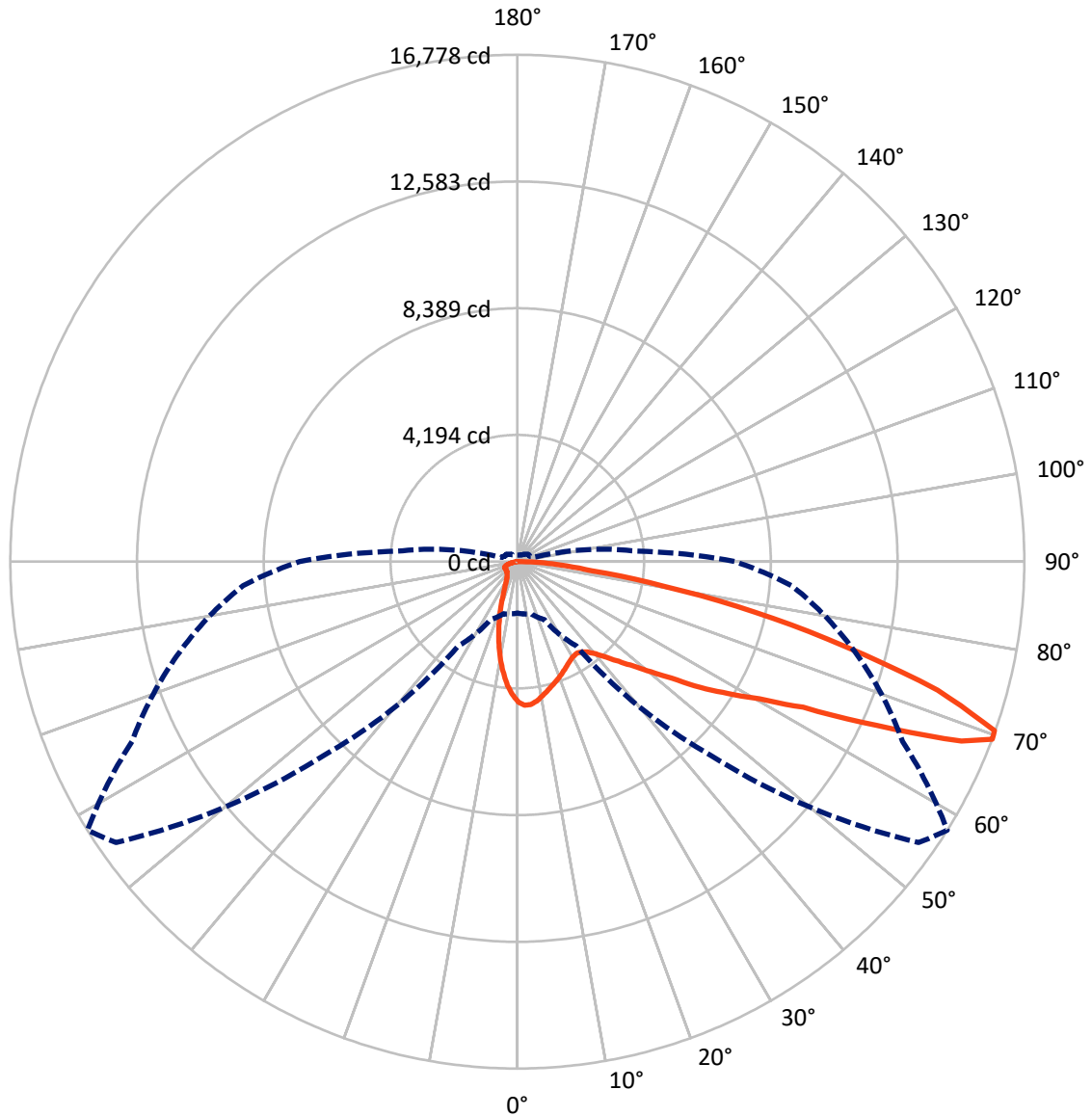
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	2465.8	0.0	2465.8
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	14360.2	0.0	14360.2
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	16826.0	0.0	16826.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.9	2.3
10°-20°	867.1	5.2
20°-30°	1120.3	6.7
30°-40°	1455.0	8.6
40°-50°	2115.4	12.6
50°-60°	3375.5	20.1
60°-70°	4509.2	26.8
70°-80°	2599.4	15.4
80°-90°	389.3	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°	16826.0	100.0
0°-180°	16826.0	100.0

**Coefficient of Utilization**



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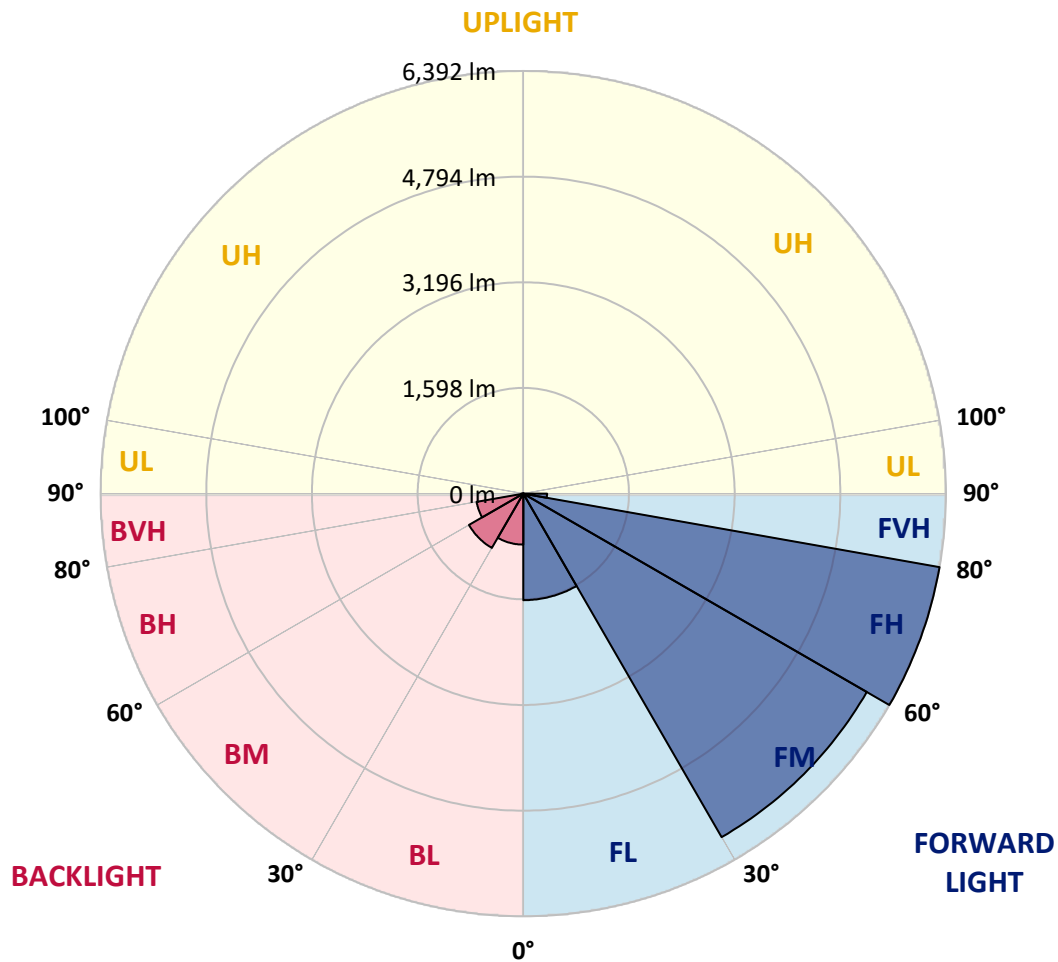
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.5	9.6			
FM	(30°-60°)	5997.6	35.6			
FH	(60°-80°)	6391.6	38.0			G3/7500
FVH	(80°-90°)	359.5	2.1			G3/500
BL	(0°-30°)	770.7	4.6	B2/1000		
BM	(30°-60°)	948.3	5.6	B1/1000		
BH	(60°-80°)	717.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	29.8	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°	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7
2.5°	4822.4	4835.5	4831.8	4827.1	4819.6	4798.9	4765.1	4759.5	4737.9	4691.9	4634.7
5°	4748.3	4759.5	4760.5	4767.0	4776.4	4772.7	4748.3	4745.4	4713.5	4651.6	4555.9
7.5°	4493.9	4509.0	4541.8	4578.4	4611.2	4642.2	4649.7	4654.4	4634.7	4563.4	4435.8
10°	4207.7	4222.8	4237.8	4292.2	4372.9	4449.8	4513.7	4522.1	4526.8	4461.1	4305.3
12.5°	3890.6	3921.5	3953.4	4034.1	4142.1	4263.1	4375.7	4393.5	4425.4	4375.7	4192.7
15°	3621.2	3653.2	3699.1	3771.4	3901.8	4076.4	4235.0	4264.0	4326.9	4301.6	4087.6
17.5°	3434.5	3445.8	3477.7	3560.3	3701.0	3884.9	4097.0	4155.2	4255.6	4249.0	3997.5
20°	3287.2	3301.3	3321.0	3371.6	3518.0	3712.3	3968.5	4043.5	4179.6	4202.1	3908.4
22.5°	3225.2	3235.6	3232.8	3260.0	3359.4	3554.6	3838.0	3927.2	4112.0	4170.2	3825.8
25°	3229.0	3238.4	3224.3	3217.7	3276.9	3415.7	3701.9	3815.5	4057.6	4148.6	3750.7
27.5°	3291.9	3298.4	3272.2	3245.9	3250.6	3329.4	3589.3	3715.1	4011.6	4158.0	3687.9
30°	3376.3	3388.5	3371.6	3339.7	3305.0	3308.8	3517.1	3641.0	3990.0	4190.8	3657.8
32.5°	3485.2	3496.4	3488.9	3463.6	3418.6	3368.8	3499.3	3613.7	3991.9	4257.5	3651.3
35°	3599.7	3622.2	3634.4	3632.5	3595.9	3509.6	3569.6	3664.4	4037.0	4369.1	3689.7
37.5°	3729.2	3747.9	3800.5	3834.3	3800.5	3700.1	3728.2	3793.9	4136.4	4530.5	3774.2
40°	3854.9	3883.1	3960.0	4065.1	4052.0	3963.8	3970.3	4013.5	4311.9	4770.8	3939.4
42.5°	3986.3	4020.1	4154.3	4310.0	4341.0	4272.5	4290.3	4328.8	4561.5	5103.9	4222.8
45°	4155.2	4195.5	4360.7	4554.9	4676.9	4634.7	4685.4	4704.1	4895.6	5537.4	4596.2
47.5°	4372.9	4419.8	4623.4	4865.6	5038.2	5076.7	5164.9	5153.6	5309.4	6050.7	5080.4
50°	4739.8	4766.1	4958.5	5205.2	5442.7	5616.3	5712.0	5729.8	5822.7	6550.0	5621.9
52.5°	5176.2	5199.6	5338.5	5554.3	5851.8	6219.6	6456.1	6397.9	6420.5	7158.0	6255.3
55°	5666.9	5706.3	5794.6	5938.1	6323.8	6865.3	7340.1	7354.2	7104.5	7739.8	6862.4
57.5°	6047.0	6113.6	6264.7	6469.3	6958.2	7583.1	8221.2	8230.6	7911.6	8361.1	7532.5
60°	5855.6	5934.4	6279.7	6778.0	7790.5	8835.9	9274.1	9220.6	8697.0	9068.6	8349.8
62.5°	5029.8	5043.8	5545.9	6324.7	8046.7	10511.8	10841.2	10615.1	9745.2	9965.7	9180.3
65°	3255.3	3347.2	3745.1	4836.5	7205.0	11441.8	13586.9	13064.3	11214.7	10983.9	9875.6
67.5°	2055.1	2031.6	2196.8	2761.7	4955.6	10622.6	15930.1	15847.5	13136.5	11626.6	9709.5
69°	1704.1	1730.4	1786.7	2117.0	3410.1	9069.5	16206.9	16777.5	14068.3	11576.0	9106.1
70°	1545.5	1557.7	1616.8	1876.8	2631.2	7596.3	15752.7	16752.1	14434.3	11363.9	8668.8
72.5°	1226.5	1225.5	1326.9	1561.5	1966.9	4336.3	12934.8	14544.1	14025.2	10376.7	7162.7
75°	931.8	946.8	1058.5	1321.3	1812.0	2369.4	9026.4	11200.6	11201.6	8195.9	4469.6
77.5°	671.9	681.3	811.7	1109.2	1706.9	1920.9	6012.3	8033.6	7552.2	3755.4	1404.8
80°	440.1	445.7	545.2	878.3	1539.0	1812.0	3564.9	4917.2	3562.1	996.6	464.5
82.5°	241.2	269.3	333.1	568.7	1234.9	1674.1	2166.7	2488.6	1336.3	443.9	242.1
85°	121.1	128.6	187.7	332.2	807.0	1385.1	1508.9	1427.3	689.7	220.5	125.7
87.5°	35.7	45.0	77.9	128.6	327.5	721.6	839.9	753.5	265.6	79.8	26.3
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°	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7	4649.7
2.5°	4611.2	4594.4	4519.3	4451.7	4389.8	4324.1	4268.7	4219.9	4224.6	4225.6	4175.8
5°	4506.1	4467.7	4325.0	4191.8	4079.2	3936.5	3814.6	3735.7	3696.3	3643.8	3662.5
7.5°	4363.5	4289.4	4091.4	3869.9	3662.5	3477.7	3276.9	3138.9	3050.7	2965.3	2976.6
10°	4216.2	4097.0	3808.9	3516.1	3247.8	2952.2	2696.0	2476.4	2313.1	2252.1	2211.8
12.5°	4065.1	3908.4	3542.4	3153.0	2782.3	2428.6	2065.4	1829.9	1649.7	1554.0	1566.2
15°	3927.2	3736.7	3264.7	2789.8	2308.4	1887.1	1524.9	1300.6	1174.9	1148.6	1163.6
17.5°	3799.5	3549.9	3004.7	2437.0	1874.9	1415.1	1145.8	1019.1	968.4	954.3	953.4
20°	3668.2	3391.3	2712.9	2059.8	1461.1	1097.0	940.3	881.1	871.8	877.4	878.3
22.5°	3534.9	3195.2	2412.6	1685.3	1163.6	897.1	822.0	806.1	813.6	826.7	828.6
25°	3412.0	3022.6	2123.6	1356.9	929.0	788.2	751.7	751.7	768.5	788.2	789.2
27.5°	3310.6	2855.5	1835.5	1077.3	777.9	709.4	697.2	703.8	727.3	742.3	743.2
30°	3227.1	2699.7	1563.4	863.3	684.1	646.6	643.7	655.0	671.9	686.0	686.9
32.5°	3164.3	2562.7	1309.1	725.4	619.3	598.7	597.8	606.2	615.6	619.3	623.1
35°	3139.9	2449.2	1076.3	638.1	576.2	563.0	563.0	562.1	565.8	567.7	569.6
37.5°	3159.6	2361.9	896.2	581.8	544.3	534.9	529.3	523.6	521.7	521.7	522.7
40°	3243.1	2315.9	762.0	545.2	521.7	507.7	497.3	490.8	484.2	486.1	488.0
42.5°	3420.4	2324.4	670.9	520.8	502.0	482.3	467.3	459.8	455.1	460.7	459.8
45°	3702.9	2408.8	612.8	503.9	482.3	457.0	442.9	435.4	435.4	443.9	446.7
47.5°	4097.9	2570.2	581.8	490.8	467.3	437.3	423.2	417.6	419.5	433.5	434.5
50°	4580.3	2850.8	576.2	484.2	459.8	423.2	407.3	401.6	406.3	421.3	423.2
52.5°	5112.3	3212.1	603.4	485.1	453.2	414.8	394.1	385.7	390.4	402.6	406.3
55°	5742.9	3664.4	673.8	488.9	443.9	410.1	384.7	366.0	371.6	380.0	381.0
57.5°	6386.7	4235.0	797.6	489.8	436.4	401.6	368.8	344.4	344.4	350.0	352.8
60°	7173.1	4856.2	960.9	490.8	437.3	389.4	347.2	320.0	316.2	319.1	320.0
62.5°	7953.8	5376.0	988.1	488.0	446.7	377.2	323.7	295.6	289.0	288.1	286.2
65°	8298.2	5279.4	809.8	474.8	457.0	369.7	305.0	272.1	260.9	257.1	257.1
67.5°	7737.0	4465.8	609.0	457.0	450.4	362.2	287.1	252.4	239.3	231.8	231.8
69°	7209.6	3972.2	547.1	444.8	433.5	350.0	275.9	242.1	226.2	217.7	214.9
70°	6802.4	3632.5	520.8	434.5	417.6	335.9	267.4	234.6	216.8	207.4	205.5
72.5°	5428.6	2849.9	456.1	395.1	355.6	282.5	237.4	211.1	194.2	183.9	181.1
75°	3128.6	1544.6	378.2	343.5	286.2	219.6	200.8	183.9	170.8	161.4	158.6
77.5°	962.8	596.8	274.0	271.2	210.2	169.8	160.5	153.9	144.5	134.2	132.3
80°	405.4	304.0	185.8	183.0	139.8	118.2	115.4	114.5	110.7	102.3	99.5
82.5°	222.4	171.7	129.5	112.6	84.5	68.5	71.3	72.3	69.4	61.0	55.4
85°	108.9	93.8	62.9	50.7	38.5	24.4	23.5	28.2	26.3	18.8	20.6
87.5°	21.6	26.3	16.9	7.5	3.8	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)