

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: P454288

Luminaire Tested: **GALN-SA5B-827-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454288
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-SA5B-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 20763 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

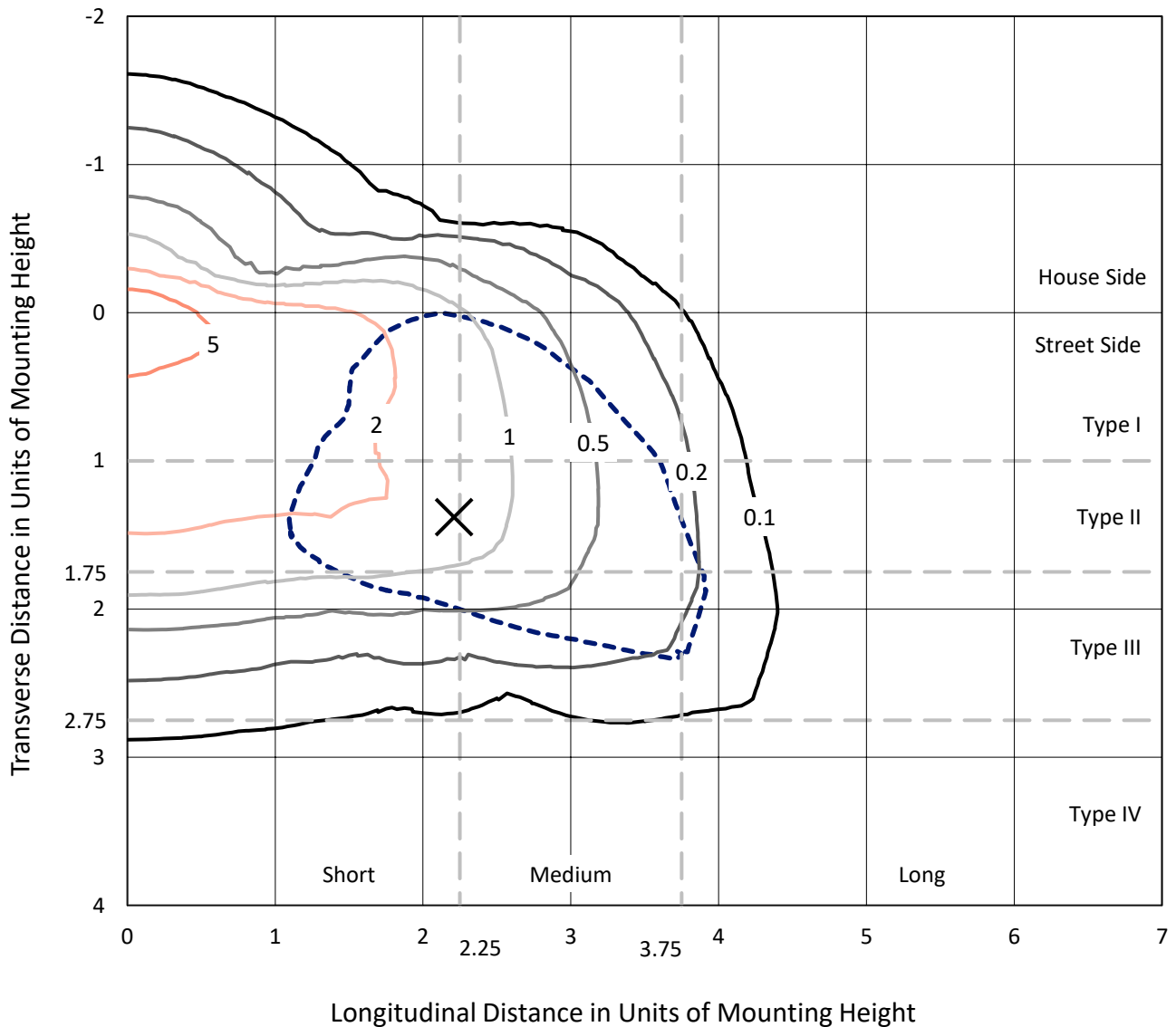
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

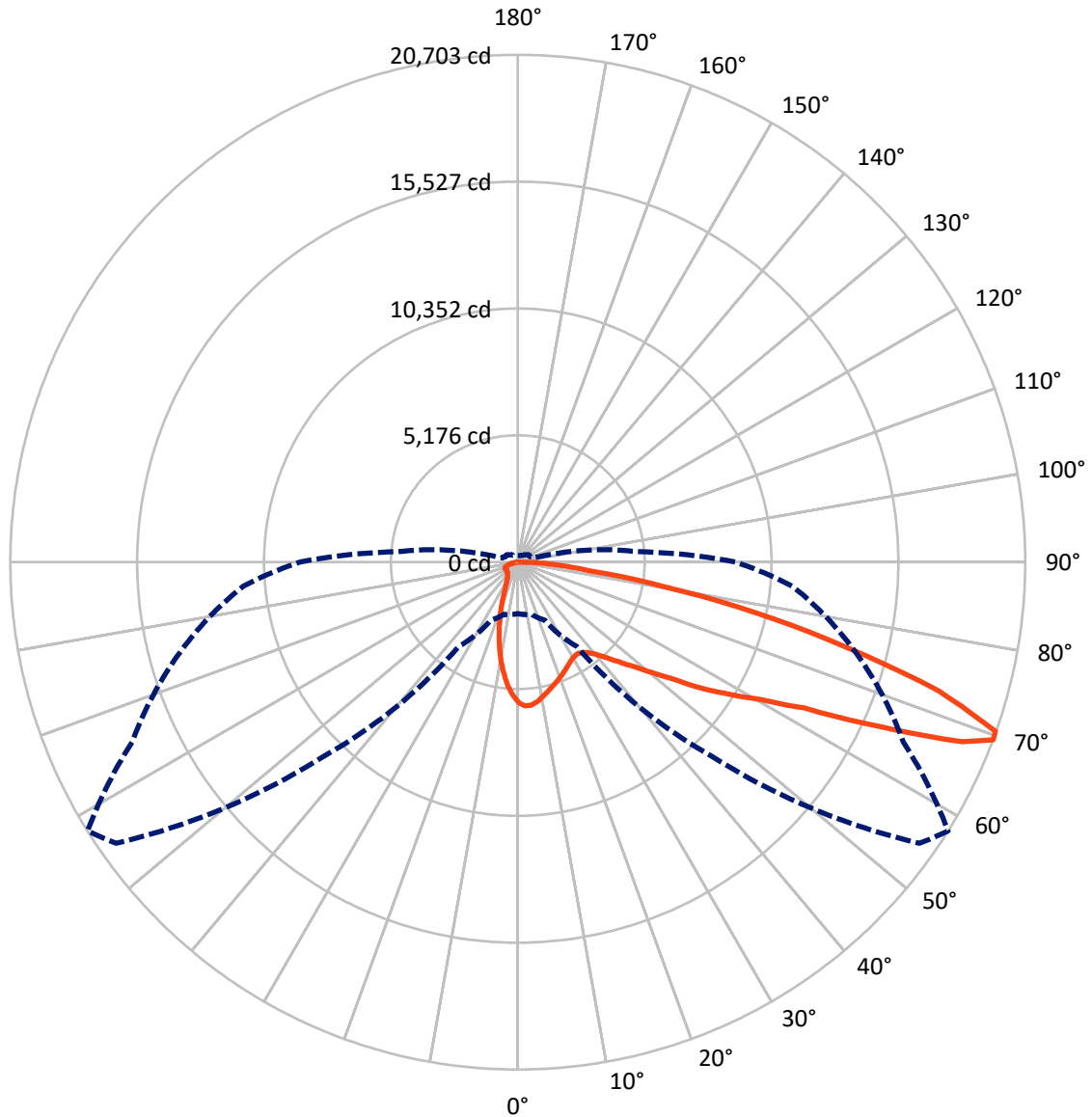
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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
House Side	Lumens	3042.8	0.0	3042.8
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	17720.2	0.0	17720.2
	% Fixture	85.3	0.0	85.3
Total	Lumens	20763.0	0.0	20763.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.3	2.3
10°-20°	1070.0	5.2
20°-30°	1382.4	6.7
30°-40°	1795.5	8.6
40°-50°	2610.4	12.6
50°-60°	4165.3	20.1
60°-70°	5564.3	26.8
70°-80°	3207.6	15.4
80°-90°	480.4	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°	20763.0	100.0
0°-180°	20763.0	100.0

Coefficient of Utilization



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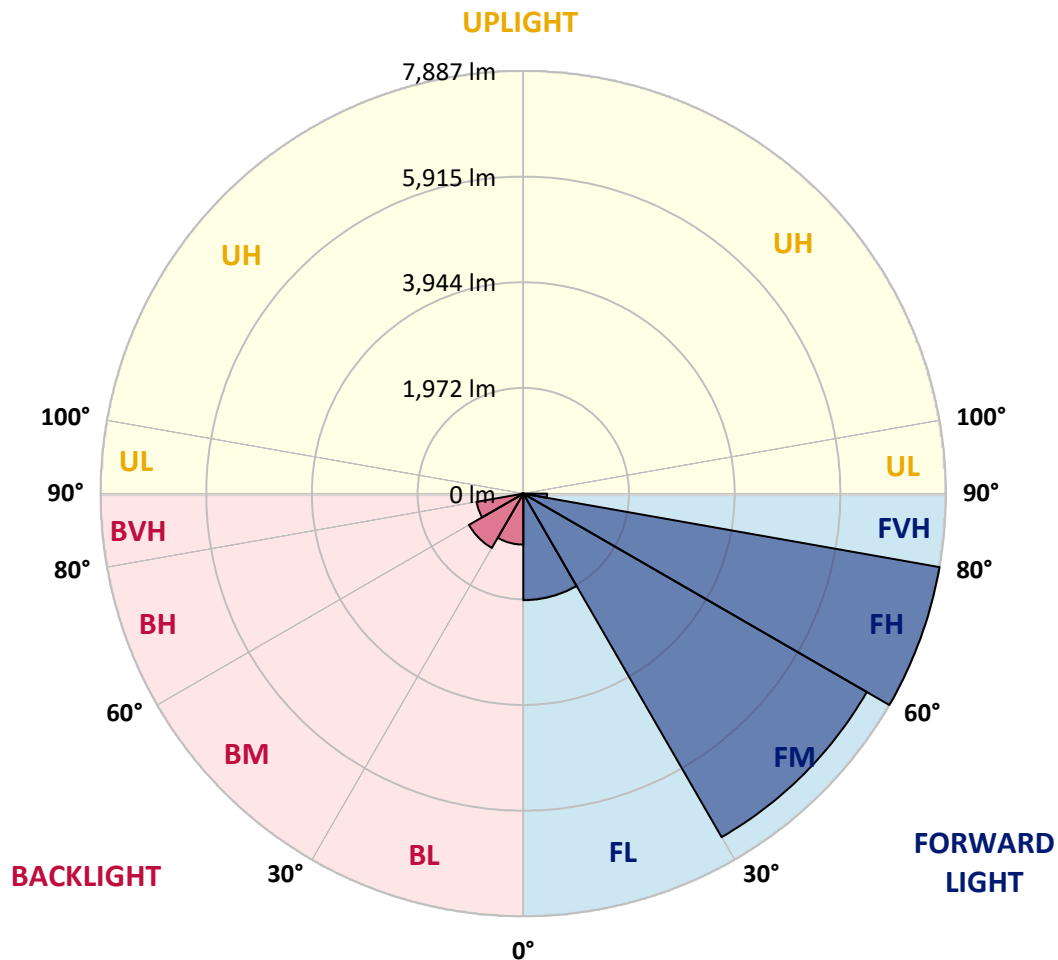
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1988.6	9.6			
FM	(30°-60°)	7400.9	35.6			
FH	(60°-80°)	7887.1	38.0			G4/12000
FVH	(80°-90°)	443.6	2.1			G3/500
BL	(0°-30°)	951.1	4.6	B2/1000		
BM	(30°-60°)	1170.2	5.6	B2/2500		
BH	(60°-80°)	884.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.8	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7
2.5°	5950.7	5967.0	5962.3	5956.5	5947.3	5921.8	5880.1	5873.2	5846.5	5789.8	5719.2
5°	5859.3	5873.2	5874.3	5882.4	5894.0	5889.4	5859.3	5855.8	5816.4	5740.0	5621.9
7.5°	5545.5	5564.0	5604.5	5649.7	5690.2	5728.4	5737.7	5743.5	5719.2	5631.1	5473.7
10°	5192.3	5210.8	5229.3	5296.5	5396.1	5491.0	5569.8	5580.2	5586.0	5504.9	5312.7
12.5°	4800.9	4839.1	4878.5	4978.1	5111.2	5260.6	5399.6	5421.6	5460.9	5399.6	5173.8
15°	4468.6	4507.9	4564.7	4653.8	4814.8	5030.2	5225.9	5261.8	5339.3	5308.1	5044.1
17.5°	4238.1	4252.0	4291.4	4393.3	4567.0	4793.9	5055.6	5127.4	5251.3	5243.2	4932.9
20°	4056.3	4073.7	4098.0	4160.5	4341.2	4580.9	4897.0	4989.6	5157.5	5185.3	4822.9
22.5°	3979.9	3992.6	3989.2	4022.7	4145.5	4386.3	4736.0	4846.1	5074.2	5146.0	4721.0
25°	3984.5	3996.1	3978.7	3970.6	4043.6	4215.0	4568.1	4708.3	5007.0	5119.3	4628.4
27.5°	4062.1	4070.2	4037.8	4005.4	4011.2	4108.4	4429.2	4584.4	4950.3	5130.9	4550.8
30°	4166.3	4181.4	4160.5	4121.2	4078.3	4083.0	4340.0	4492.9	4923.6	5171.4	4513.7
32.5°	4300.7	4314.5	4305.3	4274.0	4218.4	4157.1	4318.0	4459.3	4925.9	5253.7	4505.6
35°	4441.9	4469.7	4484.8	4482.5	4437.3	4330.8	4404.9	4521.8	4981.5	5391.4	4553.1
37.5°	4601.7	4624.9	4689.7	4731.4	4689.7	4565.8	4600.6	4681.6	5104.3	5590.6	4657.3
40°	4756.9	4791.6	4886.6	5016.3	5000.1	4891.2	4899.3	4952.6	5320.8	5887.1	4861.1
42.5°	4919.0	4960.7	5126.3	5318.5	5356.7	5272.2	5294.2	5341.7	5628.8	6298.1	5210.8
45°	5127.4	5177.2	5381.0	5620.7	5771.3	5719.2	5781.7	5804.8	6041.1	6833.1	5671.7
47.5°	5396.1	5454.0	5705.3	6004.0	6217.1	6264.5	6373.4	6359.5	6551.7	7466.5	6269.2
50°	5848.8	5881.3	6118.6	6423.2	6716.2	6930.4	7048.5	7070.5	7185.1	8082.5	6937.3
52.5°	6387.3	6416.2	6587.6	6853.9	7221.0	7674.9	7966.7	7895.0	7922.7	8832.9	7718.9
55°	6992.9	7041.5	7150.4	7327.6	7803.5	8471.6	9057.5	9074.9	8766.9	9550.8	8468.1
57.5°	7461.9	7544.1	7730.5	7983.0	8586.3	9357.5	10144.9	10156.4	9762.7	10317.4	9294.9
60°	7225.7	7322.9	7749.0	8363.9	9613.4	10903.3	11444.1	11378.1	10731.9	11190.5	10303.5
62.5°	6206.7	6224.0	6843.5	7804.6	9929.5	12971.4	13377.9	13098.8	12025.4	12297.5	11328.3
65°	4017.0	4130.4	4621.4	5968.1	8890.8	14119.0	16766.1	16121.1	13838.7	13553.9	12186.3
67.5°	2535.9	2507.0	2710.8	3407.9	6115.2	13108.1	19657.5	19555.6	16210.2	14347.1	11981.4
69°	2102.9	2135.3	2204.8	2612.4	4208.0	11191.7	19999.1	20703.1	17360.1	14284.6	11236.8
70°	1907.2	1922.2	1995.2	2315.9	3246.9	9373.7	19438.6	20671.9	17811.7	14022.9	10697.2
72.5°	1513.4	1512.3	1637.4	1926.8	2427.1	5350.9	15961.3	17947.2	17306.8	12804.7	8838.7
75°	1149.9	1168.4	1306.2	1630.4	2236.0	2923.8	11138.4	13821.4	13822.5	10113.6	5515.3
77.5°	829.1	840.7	1001.6	1368.7	2106.3	2370.3	7419.0	9913.3	9319.2	4634.1	1733.5
80°	543.1	550.0	672.8	1083.8	1899.0	2236.0	4399.1	6067.7	4395.6	1229.8	573.2
82.5°	297.6	332.3	411.1	701.7	1523.9	2065.8	2673.7	3070.9	1648.9	547.7	298.8
85°	149.4	158.6	231.6	409.9	995.8	1709.1	1862.0	1761.3	851.1	272.1	155.2
87.5°	44.0	55.6	96.1	158.6	404.1	890.5	1036.4	929.8	327.7	98.4	32.4
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°	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7	5737.7
2.5°	5690.2	5669.4	5576.7	5493.3	5416.9	5335.9	5267.5	5207.3	5213.1	5214.3	5152.9
5°	5560.5	5513.0	5337.0	5172.6	5033.6	4857.6	4707.1	4609.8	4561.2	4496.3	4519.5
7.5°	5384.5	5293.0	5048.7	4775.4	4519.5	4291.4	4043.6	3873.4	3764.5	3659.1	3673.0
10°	5202.7	5055.6	4700.1	4338.9	4007.7	3642.9	3326.8	3055.8	2854.4	2779.1	2729.3
12.5°	5016.3	4822.9	4371.3	3890.7	3433.3	2996.8	2548.7	2258.0	2035.7	1917.6	1932.6
15°	4846.1	4611.0	4028.5	3442.6	2848.6	2328.7	1881.7	1604.9	1449.8	1417.3	1435.9
17.5°	4688.6	4380.6	3707.8	3007.2	2313.6	1746.2	1413.9	1257.5	1195.0	1177.6	1176.5
20°	4526.5	4184.9	3347.7	2541.7	1802.9	1353.7	1160.3	1087.3	1075.7	1082.7	1083.8
22.5°	4362.0	3942.8	2977.1	2079.7	1435.9	1107.0	1014.4	994.7	1003.9	1020.2	1022.5
25°	4210.3	3729.8	2620.5	1674.4	1146.4	972.7	927.5	927.5	948.4	972.7	973.8
27.5°	4085.3	3523.7	2265.0	1329.3	959.9	875.4	860.4	868.5	897.4	915.9	917.1
30°	3982.2	3331.4	1929.2	1065.3	844.2	797.8	794.4	808.3	829.1	846.5	847.6
32.5°	3904.6	3162.4	1615.4	895.1	764.3	738.8	737.6	748.0	759.6	764.3	768.9
35°	3874.5	3022.3	1328.2	787.4	711.0	694.8	694.8	693.6	698.2	700.6	702.9
37.5°	3898.8	2914.6	1105.8	717.9	671.6	660.0	653.1	646.1	643.8	643.8	645.0
40°	4001.9	2857.8	940.3	672.8	643.8	626.5	613.7	605.6	597.5	599.8	602.1
42.5°	4220.8	2868.3	827.9	642.7	619.5	595.2	576.7	567.4	561.6	568.6	567.4
45°	4569.3	2972.5	756.1	621.8	595.2	563.9	546.6	537.3	537.3	547.7	551.2
47.5°	5056.8	3171.6	717.9	605.6	576.7	539.6	522.2	515.3	517.6	535.0	536.1
50°	5652.0	3517.9	711.0	597.5	567.4	522.2	502.6	495.6	501.4	519.9	522.2
52.5°	6308.6	3963.7	744.6	598.7	559.3	511.8	486.3	475.9	481.7	496.8	501.4
55°	7086.7	4521.8	831.4	603.3	547.7	506.0	474.8	451.6	458.6	469.0	470.1
57.5°	7881.1	5225.9	984.3	604.5	538.5	495.6	455.1	425.0	425.0	431.9	435.4
60°	8851.4	5992.4	1185.7	605.6	539.6	480.6	428.4	394.9	390.2	393.7	394.9
62.5°	9814.8	6633.9	1219.3	602.1	551.2	465.5	399.5	364.8	356.7	355.5	353.2
65°	10239.8	6514.7	999.3	585.9	563.9	456.2	376.3	335.8	321.9	317.3	317.3
67.5°	9547.4	5510.7	751.5	563.9	555.8	447.0	354.3	311.5	295.3	286.0	286.0
69°	8896.6	4901.6	675.1	548.9	535.0	431.9	340.4	298.8	279.1	268.6	265.2
70°	8394.0	4482.5	642.7	536.1	515.3	414.5	330.0	289.5	267.5	255.9	253.6
72.5°	6698.8	3516.7	562.8	487.5	438.9	348.5	293.0	260.5	239.7	227.0	223.5
75°	3860.6	1906.0	466.7	423.8	353.2	271.0	247.8	227.0	210.7	199.2	195.7
77.5°	1188.1	736.5	338.1	334.6	259.4	209.6	198.0	189.9	178.3	165.6	163.3
80°	500.2	375.2	229.3	225.8	172.5	145.9	142.4	141.3	136.6	126.2	122.7
82.5°	274.4	211.9	159.8	139.0	104.2	84.5	88.0	89.2	85.7	75.3	68.3
85°	134.3	115.8	77.6	62.5	47.5	30.1	28.9	34.7	32.4	23.2	25.5
87.5°	26.6	32.4	20.8	9.3	4.6	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)