

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: P452749

Luminaire Tested: **GALN-SA3D-727-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452749
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3D-727-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19278 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

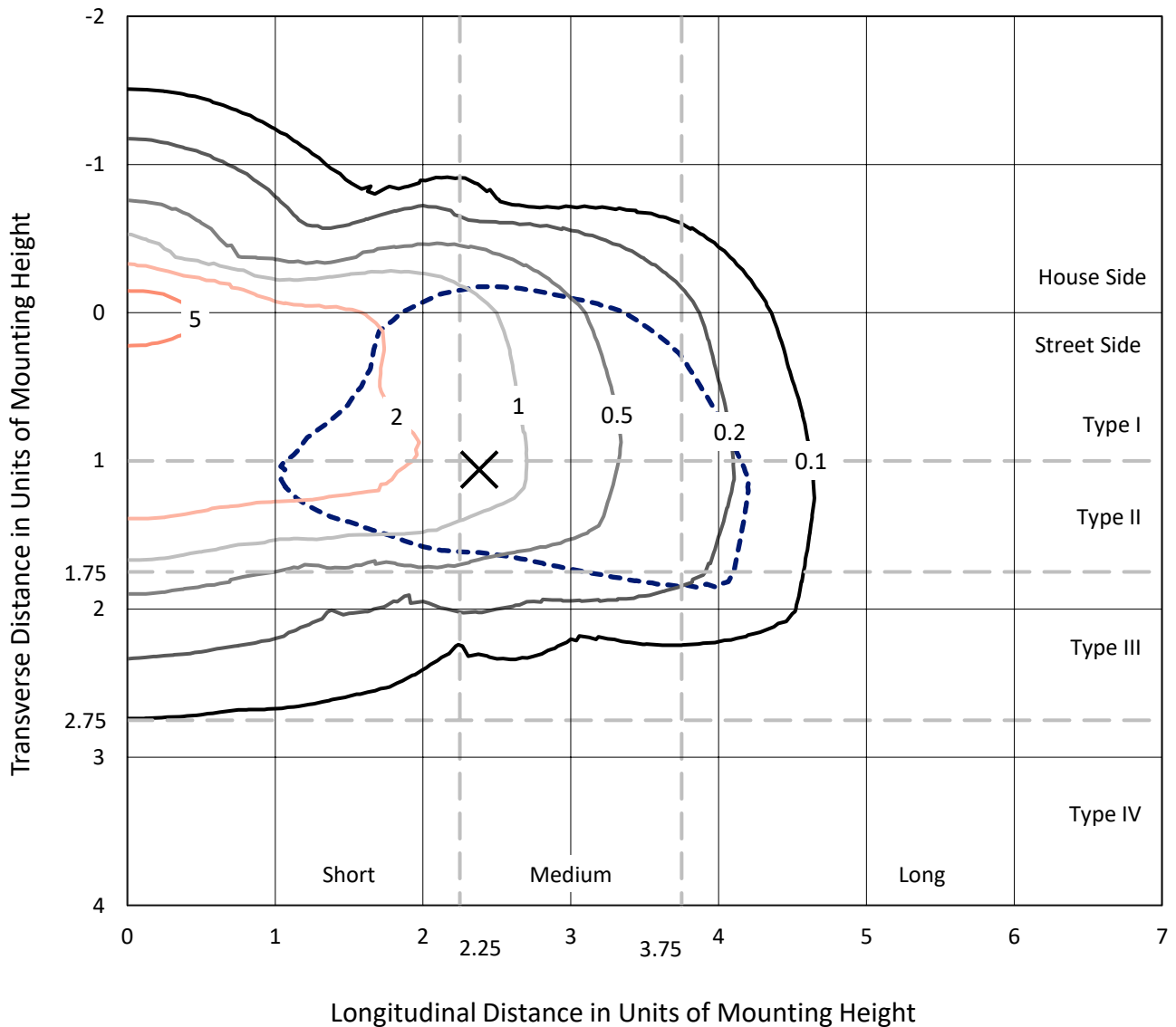
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452749
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Iso-Footcandle Lines of Horizontal Illumination

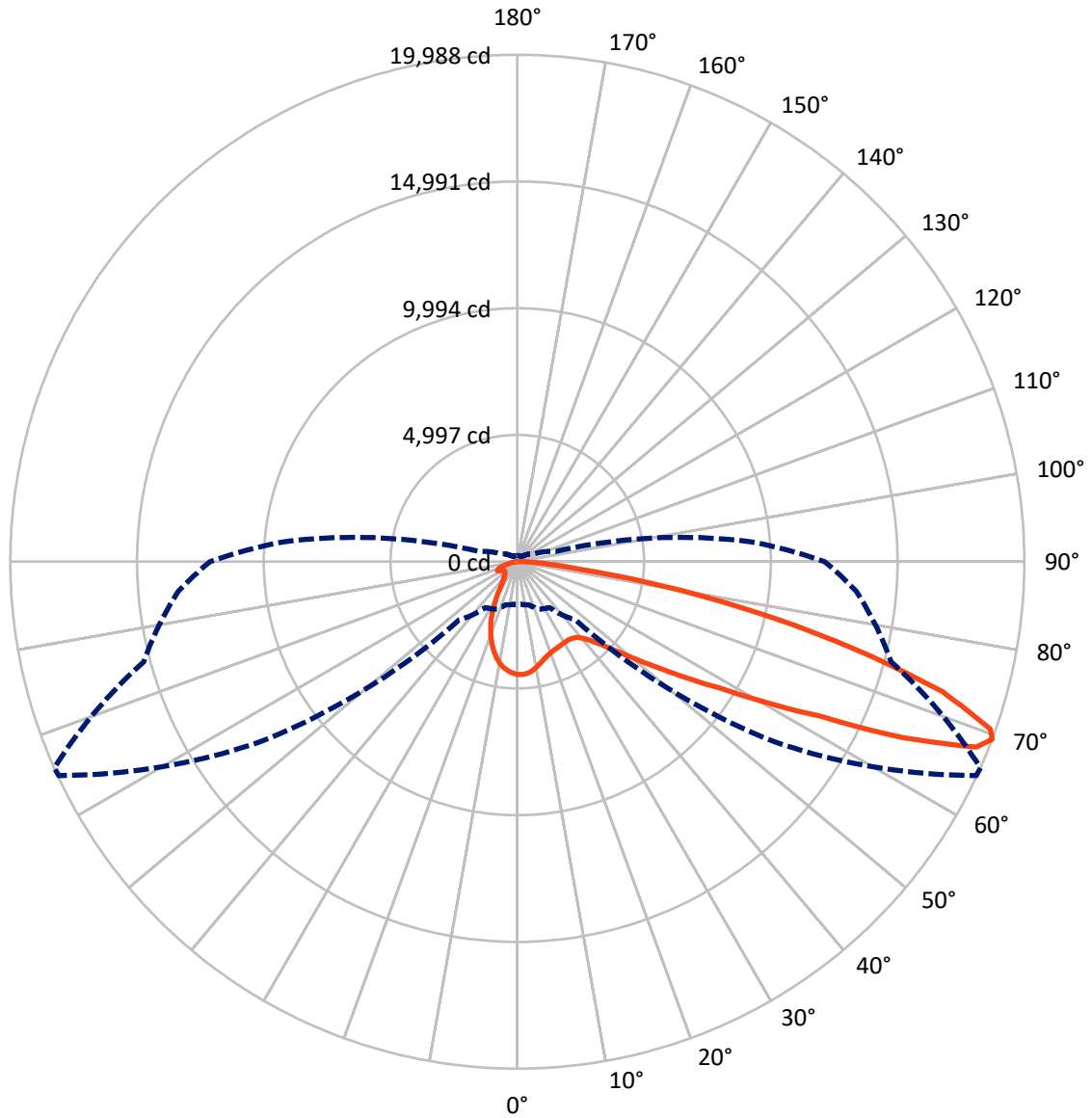
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GALN-SA3D-727-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3625.5	0.0	3625.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	15652.5	0.0	15652.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	19278.0	0.0	19278.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	386.6	2.0
10°-20°	917.0	4.8
20°-30°	1248.3	6.5
30°-40°	1677.5	8.7
40°-50°	2504.8	13.0
50°-60°	3984.2	20.7
60°-70°	4900.4	25.4
70°-80°	3188.4	16.5
80°-90°	470.8	2.4
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°	19278.0	100.0
0°-180°	19278.0	100.0



REPORT NUMBER: P452749

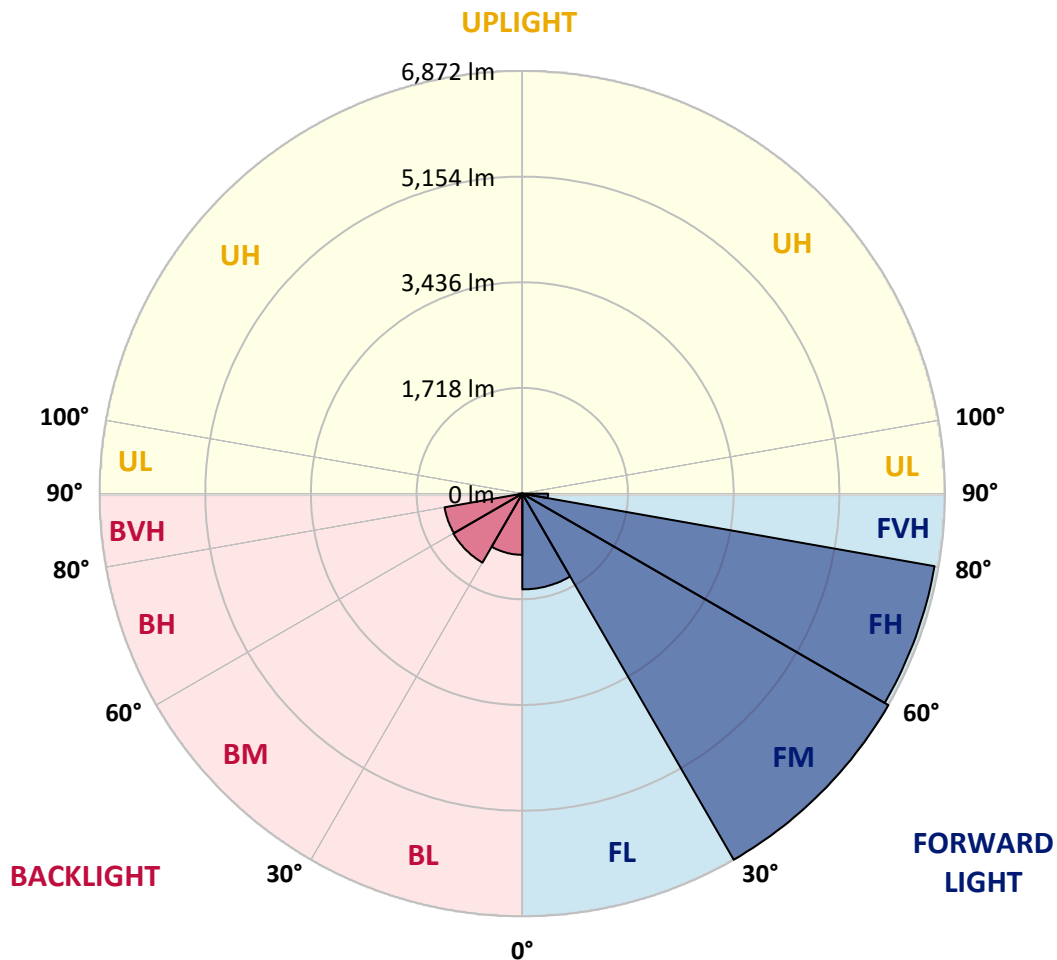
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1556.7	8.1			
FM (30°-60°)	6872.0	35.6			
FH (60°-80°)	6805.2	35.3			G3/7500
FVH (80°-90°)	418.6	2.2			G3/500
BL (0°-30°)	995.2	5.2	B2/1000		
BM (30°-60°)	1294.4	6.7	B2/2500		
BH (60°-80°)	1283.6	6.7	B3/2500		G3/2500
BVH (80°-90°)	52.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8
2.5°	4296.0	4313.0	4332.3	4353.6	4394.2	4416.6	4432.6	4450.8	4452.9	4462.5	4455.0
5°	3978.9	3999.2	4028.0	4068.6	4129.4	4224.4	4322.6	4402.7	4412.3	4457.2	4470.0
7.5°	3714.1	3725.9	3749.4	3814.5	3901.0	4006.6	4149.7	4312.0	4335.5	4442.2	4479.6
10°	3498.5	3510.2	3538.0	3605.2	3690.6	3823.0	3980.0	4193.5	4212.7	4396.3	4481.7
12.5°	3337.3	3347.9	3377.8	3444.0	3542.2	3666.1	3839.0	4065.4	4093.1	4335.5	4461.4
15°	3214.5	3234.8	3259.3	3313.8	3417.3	3536.9	3704.5	3947.9	3970.3	4271.4	4447.6
17.5°	3162.2	3171.8	3188.9	3239.1	3314.8	3432.3	3601.0	3856.1	3882.8	4226.6	4444.4
20°	3164.3	3173.9	3177.1	3204.9	3259.3	3360.8	3527.3	3783.5	3815.5	4187.1	4449.7
22.5°	3236.9	3238.0	3226.2	3216.6	3238.0	3322.3	3475.0	3729.1	3766.4	4170.0	4454.0
25°	3349.0	3368.2	3351.1	3306.3	3266.8	3307.4	3454.7	3699.2	3734.4	4145.4	4448.6
27.5°	3530.5	3533.7	3519.8	3459.0	3356.5	3326.6	3446.2	3676.8	3706.7	4127.3	4421.9
30°	3773.9	3764.3	3751.5	3684.2	3523.0	3400.3	3464.3	3656.5	3687.4	4100.6	4389.9
32.5°	4020.5	4050.4	4038.7	3959.7	3750.4	3543.3	3523.0	3654.3	3680.0	4080.3	4354.7
35°	4282.1	4296.0	4351.5	4310.9	4096.3	3775.0	3633.0	3687.4	3707.7	4081.4	4330.1
37.5°	4487.1	4524.4	4654.7	4689.9	4488.1	4081.4	3811.3	3781.4	3789.9	4133.7	4339.7
40°	4734.7	4798.8	4966.4	5110.5	4978.1	4479.6	4114.5	3955.4	3966.1	4259.7	4402.7
42.5°	5048.6	5093.4	5318.7	5514.1	5492.7	5005.9	4481.7	4240.4	4245.8	4510.5	4578.9
45°	5415.9	5479.9	5732.9	6026.5	6076.7	5601.6	5012.3	4671.7	4668.5	4900.2	4907.7
47.5°	5885.6	5925.1	6176.0	6496.2	6699.1	6350.0	5656.1	5290.9	5256.8	5468.2	5407.3
50°	6318.0	6379.9	6569.9	6920.1	7425.0	7226.5	6502.7	6093.8	6013.7	6211.2	6108.7
52.5°	6499.5	6564.6	6724.7	7159.2	8047.4	8360.3	7577.7	7051.4	6917.9	7069.5	7032.2
55°	6184.5	6268.9	6418.3	6946.8	8320.8	9668.0	9027.5	8158.5	8061.3	7996.2	8006.9
57.5°	5337.9	5418.0	5619.8	6202.7	7994.1	10617.1	11097.5	9581.6	9373.4	9073.4	9124.6
60°	4063.2	4113.4	4218.0	4863.9	7025.8	10863.7	13448.4	11380.4	11248.1	10146.3	10182.6
62.5°	2885.7	2942.3	3014.9	3337.3	5143.6	10168.7	15288.9	13892.5	13419.5	11257.7	11222.4
65°	2343.3	2304.9	2392.5	2543.0	3018.1	7880.9	15703.1	17379.2	16728.0	12721.3	12232.4
67.5°	1927.0	1886.4	1972.9	2240.9	2295.3	4574.6	14210.6	19642.5	19512.2	14313.1	13258.3
69°	1706.0	1684.6	1760.4	2065.8	2203.5	3248.7	12379.7	19957.4	19988.4	15251.5	13416.3
70°	1537.3	1545.9	1619.5	1977.2	2161.9	2678.6	10580.8	19522.9	19785.5	15720.2	13245.5
72.5°	1131.6	1149.8	1252.3	1637.7	2122.4	2272.9	6296.6	17052.5	17516.9	15747.9	12117.1
75°	791.1	782.5	873.3	1233.1	2004.9	2252.6	3698.1	13187.9	13714.2	13611.7	10181.5
77.5°	517.8	531.7	604.3	871.1	1686.8	2235.5	2410.6	9356.3	9697.9	9103.3	6022.2
80°	365.1	364.0	404.6	594.6	1251.2	2148.0	1974.0	5897.3	5810.9	3577.5	1786.1
82.5°	209.2	224.2	271.2	418.5	837.0	1890.7	1816.0	2820.6	2575.0	1019.5	603.2
85°	116.4	121.7	161.2	253.0	489.0	1424.2	1585.4	1283.2	1210.6	426.0	259.4
87.5°	37.4	40.6	67.3	128.1	222.1	672.6	897.8	592.5	546.6	153.7	104.6
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°	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8	4451.8
2.5°	4458.2	4471.0	4436.9	4403.8	4373.9	4332.3	4294.9	4263.9	4242.6	4239.4	4228.7
5°	4473.2	4474.2	4409.1	4321.6	4236.2	4142.2	4045.1	3975.7	3910.6	3874.3	3856.1
7.5°	4483.9	4474.2	4356.8	4214.8	4050.4	3879.6	3708.8	3572.1	3466.4	3424.8	3440.8
10°	4479.6	4449.7	4277.8	4050.4	3811.3	3556.1	3310.6	3118.4	2942.3	2851.5	2853.7
12.5°	4456.1	4407.0	4160.4	3865.7	3514.5	3172.9	2797.1	2537.6	2333.7	2213.1	2175.7
15°	4435.8	4350.4	4022.7	3614.8	3178.2	2690.3	2232.3	1912.0	1741.2	1646.2	1645.1
17.5°	4414.5	4296.0	3872.1	3349.0	2791.7	2164.0	1683.6	1439.1	1359.0	1368.6	1352.6
20°	4392.0	4231.9	3715.2	3053.3	2320.9	1614.2	1260.8	1161.5	1184.0	1227.7	1234.1
22.5°	4366.4	4163.6	3546.5	2727.7	1825.6	1214.9	1022.7	1007.8	1065.4	1133.8	1143.4
25°	4326.9	4078.2	3334.1	2387.1	1408.1	979.0	895.7	906.4	963.0	1020.6	1027.0
27.5°	4271.4	3972.5	3119.5	1962.2	1058.0	840.2	818.8	832.7	860.5	895.7	904.2
30°	4196.7	3852.9	2872.9	1595.0	847.7	770.8	762.3	769.7	785.7	800.7	805.0
32.5°	4121.9	3737.6	2624.1	1221.3	755.8	724.9	716.3	716.3	716.3	718.5	719.6
35°	4052.5	3628.7	2357.2	951.2	707.8	688.6	676.8	664.0	661.9	654.4	654.4
37.5°	4014.1	3529.4	2073.2	796.4	672.6	658.7	642.7	621.3	609.6	610.7	608.5
40°	4021.6	3464.3	1814.9	708.9	643.8	628.8	604.3	579.7	572.2	572.2	570.1
42.5°	4105.9	3443.0	1567.2	663.0	616.0	598.9	568.0	545.5	541.3	540.2	542.3
45°	4300.2	3495.3	1345.2	633.1	592.5	566.9	535.9	515.6	511.4	511.4	510.3
47.5°	4679.2	3665.0	1186.1	613.9	575.4	542.3	510.3	490.0	482.5	480.4	480.4
50°	5268.5	4033.3	1067.6	596.8	554.1	519.9	486.8	463.3	451.6	450.5	449.5
52.5°	6087.4	4607.7	1021.7	584.0	530.6	496.4	460.1	437.7	422.8	419.6	417.4
55°	7045.0	5409.4	1084.7	574.4	506.0	469.7	432.4	408.9	395.0	388.6	387.5
57.5°	8154.2	6372.4	1323.8	561.5	483.6	440.9	404.6	381.1	366.2	358.7	356.6
60°	9150.3	7362.1	1741.2	554.1	464.4	410.0	372.6	351.2	337.4	329.9	328.8
62.5°	10244.5	8305.8	2239.8	574.4	455.9	380.1	342.7	323.5	311.7	304.3	304.3
65°	11413.5	9250.6	2569.7	642.7	468.7	356.6	310.7	294.7	284.0	278.6	277.6
67.5°	12201.4	9577.3	2117.0	713.1	500.7	331.0	279.7	266.9	260.5	255.2	255.2
69°	12116.0	9164.1	1561.9	731.3	510.3	318.1	262.6	253.0	244.5	242.3	240.2
70°	11845.9	8693.3	1308.9	719.6	502.8	306.4	251.9	240.2	232.7	230.6	229.5
72.5°	10550.9	7539.3	974.7	625.6	428.1	265.8	223.1	212.4	206.0	202.8	202.8
75°	8765.9	6162.1	761.2	497.5	335.2	224.2	191.1	182.6	177.2	175.1	174.0
77.5°	4913.0	3440.8	546.6	389.7	254.1	181.5	160.1	152.7	147.3	145.2	145.2
80°	1368.6	983.2	321.3	257.3	172.9	137.7	127.0	121.7	114.2	108.9	112.1
82.5°	515.6	426.0	183.6	154.8	110.0	91.8	88.6	84.3	81.1	73.7	73.7
85°	250.9	207.1	117.4	82.2	60.9	48.0	45.9	43.8	41.6	36.3	37.4
87.5°	86.5	91.8	51.2	29.9	18.1	11.7	9.6	5.3	5.3	5.3	5.3
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)