

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: STREETWORKS

Report Number: P452751

Luminaire Tested: **GLAN-SA3D-727-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452751
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: STREETWORKS
Catalog Number: GLAN-SA3D-727-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 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: 19143 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

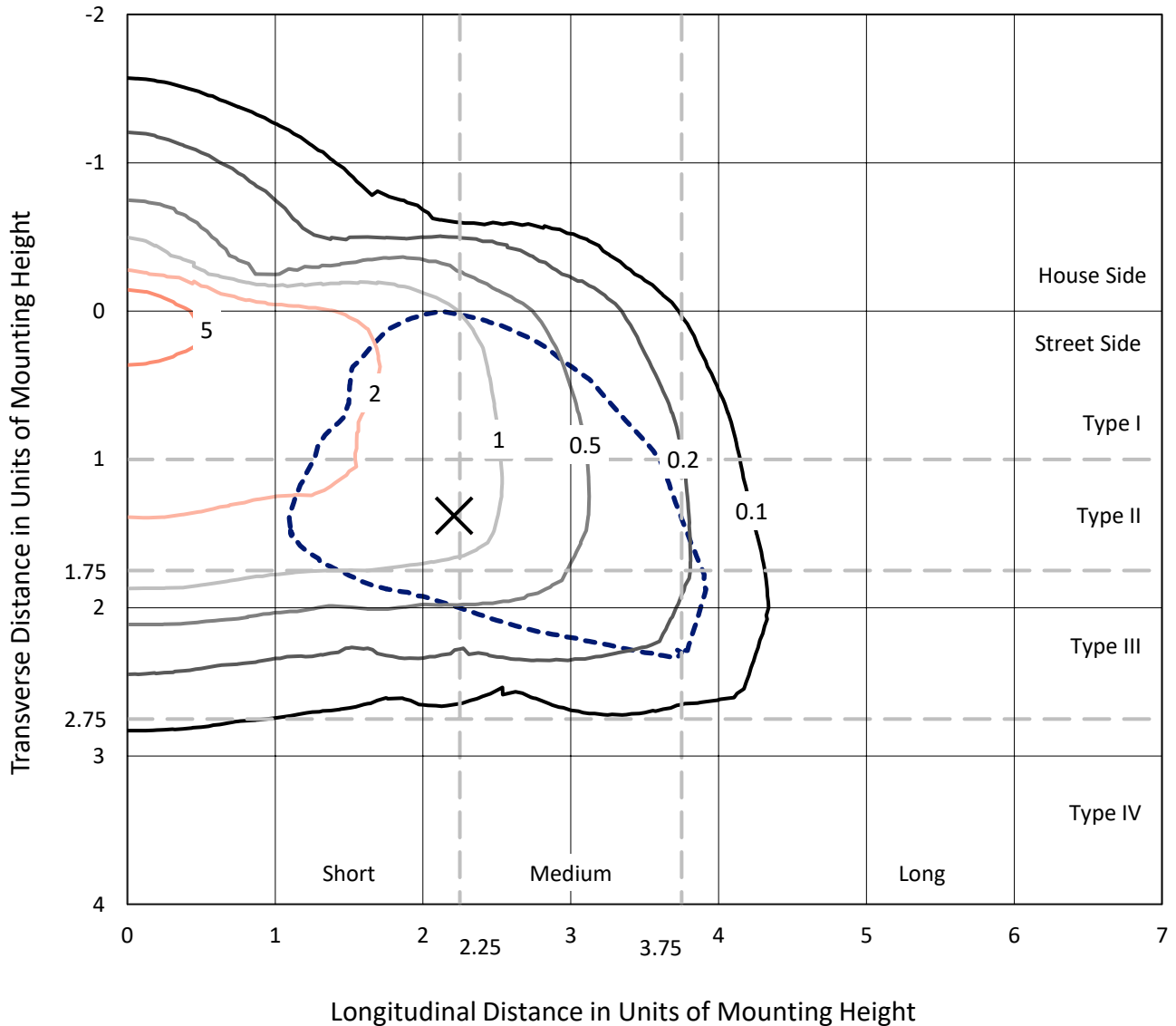
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

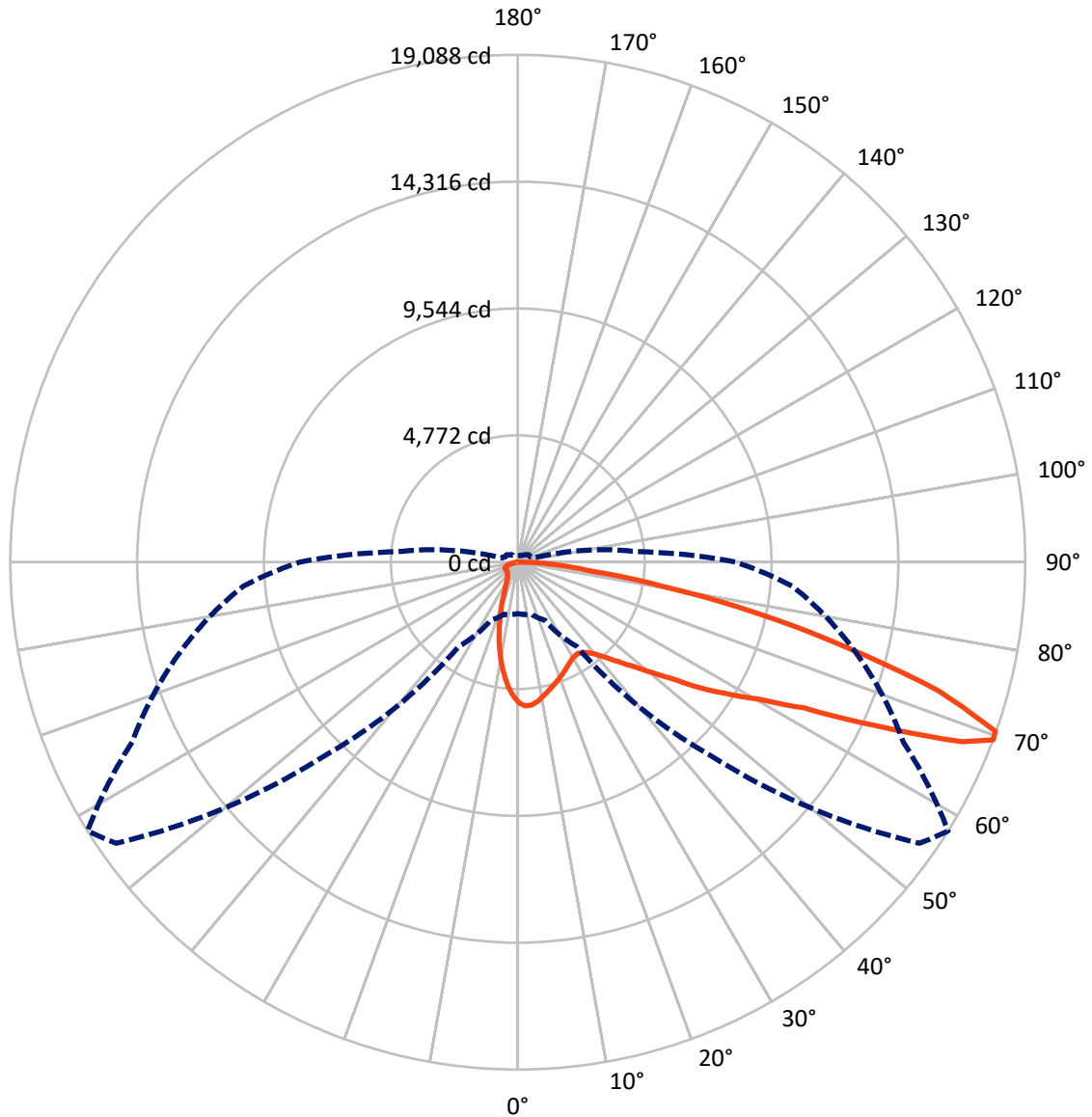
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 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	2805.4	0.0	2805.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	16337.6	0.0	16337.6
	% Fixture	85.3	0.0	85.3
Total	Lumens	19143.0	0.0	19143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.2	2.3
10°-20°	986.5	5.2
20°-30°	1274.5	6.7
30°-40°	1655.4	8.6
40°-50°	2406.7	12.6
50°-60°	3840.3	20.1
60°-70°	5130.1	26.8
70°-80°	2957.3	15.4
80°-90°	442.9	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°	19143.0	100.0
0°-180°	19143.0	100.0

Coefficient of Utilization



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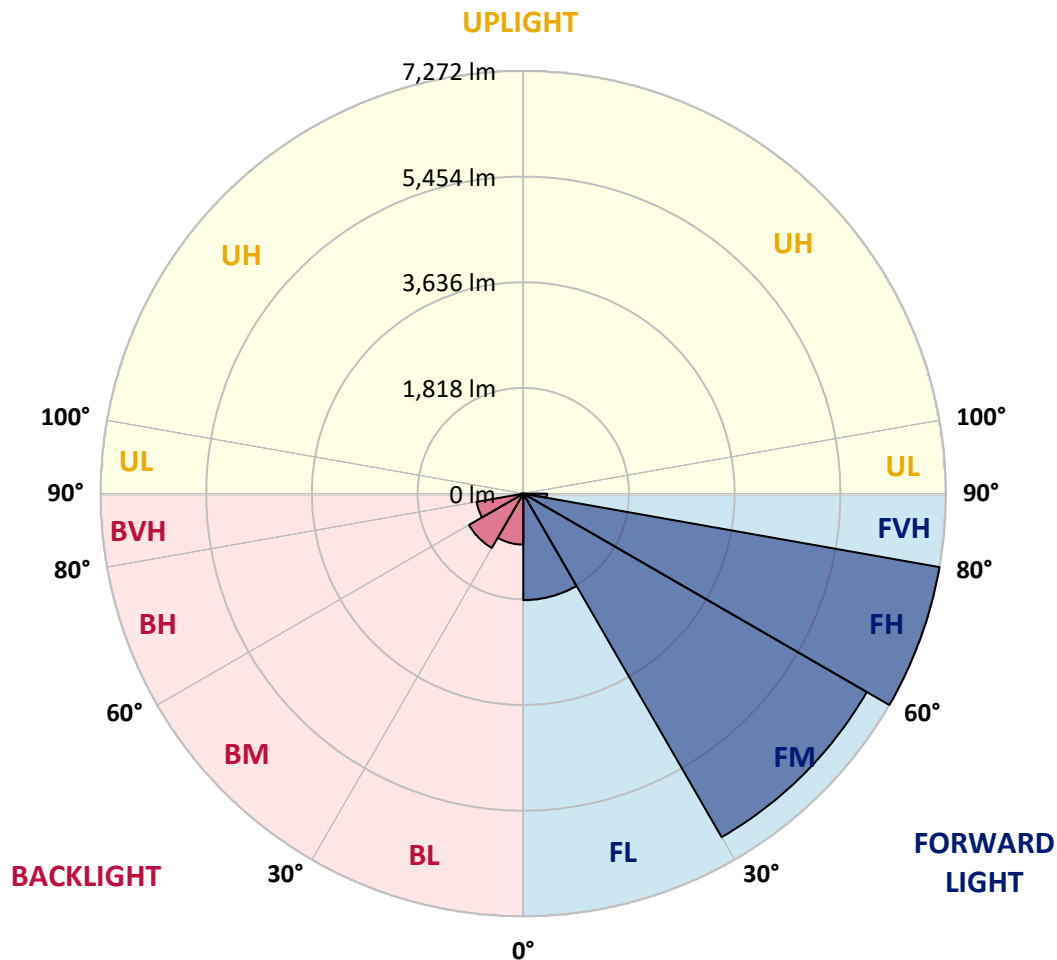
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1833.4	9.6			
FM	(30°-60°)	6823.5	35.6			
FH	(60°-80°)	7271.7	38.0			G3/7500
FVH	(80°-90°)	409.0	2.1			G3/500
BL	(0°-30°)	876.9	4.6	B2/1000		
BM	(30°-60°)	1078.9	5.6	B2/2500		
BH	(60°-80°)	815.8	4.3	B2/1000		G2/1000
BVH	(80°-90°)	33.9	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°	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0
2.5°	5486.4	5501.4	5497.1	5491.8	5483.2	5459.8	5421.3	5414.9	5390.4	5338.0	5272.9
5°	5402.1	5414.9	5416.0	5423.5	5434.1	5429.9	5402.1	5398.9	5362.6	5292.1	5183.2
7.5°	5112.8	5129.9	5167.2	5208.9	5246.2	5281.5	5290.0	5295.3	5272.9	5191.8	5046.6
10°	4787.2	4804.2	4821.3	4883.2	4975.1	5062.6	5135.2	5144.8	5150.1	5075.4	4898.2
12.5°	4426.3	4461.5	4497.8	4589.7	4712.4	4850.1	4978.3	4998.5	5034.8	4978.3	4770.1
15°	4119.9	4156.2	4208.5	4290.7	4439.1	4637.7	4818.1	4851.2	4922.7	4893.9	4650.5
17.5°	3907.5	3920.3	3956.6	4050.5	4210.7	4419.9	4661.2	4727.4	4841.6	4834.1	4548.0
20°	3739.8	3755.8	3778.3	3835.9	4002.5	4223.5	4514.9	4600.3	4755.1	4780.8	4446.6
22.5°	3669.4	3681.1	3677.9	3708.9	3822.0	4044.1	4366.5	4467.9	4678.3	4744.5	4352.6
25°	3673.6	3684.3	3668.3	3660.8	3728.1	3886.1	4211.7	4340.9	4616.3	4719.9	4267.2
27.5°	3745.2	3752.6	3722.8	3692.9	3698.2	3787.9	4083.6	4226.7	4564.0	4730.6	4195.7
30°	3841.3	3855.1	3835.9	3799.6	3760.1	3764.4	4001.4	4142.3	4539.5	4767.9	4161.5
32.5°	3965.1	3977.9	3969.4	3940.5	3889.3	3832.7	3981.1	4111.4	4541.6	4843.7	4154.1
35°	4095.3	4121.0	4134.9	4132.7	4091.1	3992.9	4061.2	4169.0	4592.9	4970.8	4197.8
37.5°	4242.7	4264.0	4323.8	4362.3	4323.8	4209.6	4241.6	4316.3	4706.0	5154.4	4293.9
40°	4385.7	4417.8	4505.3	4624.9	4609.9	4509.6	4517.1	4566.2	4905.7	5427.7	4481.8
42.5°	4535.2	4573.6	4726.3	4903.5	4938.8	4860.8	4881.1	4924.9	5189.6	5806.7	4804.2
45°	4727.4	4773.3	4961.2	5182.2	5321.0	5272.9	5330.6	5351.9	5569.7	6300.0	5229.2
47.5°	4975.1	5028.4	5260.1	5535.6	5732.0	5775.8	5876.1	5863.3	6040.5	6883.9	5780.0
50°	5392.5	5422.4	5641.2	5922.0	6192.1	6389.6	6498.5	6518.8	6624.5	7451.9	6396.0
52.5°	5888.9	5915.6	6073.6	6319.2	6657.6	7076.1	7345.2	7279.0	7304.6	8143.7	7116.7
55°	6447.3	6492.1	6592.5	6755.8	7194.6	7810.6	8350.8	8366.9	8082.9	8805.6	7807.4
57.5°	6879.7	6955.5	7127.4	7360.1	7916.3	8627.4	9353.3	9364.0	9001.0	9512.4	8569.7
60°	6661.9	6751.6	7144.4	7711.3	8863.3	10052.6	10551.2	10490.3	9894.6	10317.4	9499.6
62.5°	5722.4	5738.4	6309.6	7195.7	9154.8	11959.4	12334.1	12076.8	11087.1	11338.0	10444.4
65°	3703.5	3808.2	4260.8	5502.5	8197.1	13017.4	15457.9	14863.3	12759.0	12496.4	11235.5
67.5°	2338.1	2311.4	2499.3	3142.0	5638.0	12085.3	18123.7	18029.8	14945.5	13227.7	11046.6
69°	1938.8	1968.7	2032.7	2408.5	3879.7	10318.4	18438.7	19087.8	16005.6	13170.0	10360.1
70°	1758.4	1772.2	1839.5	2135.2	2993.6	8642.3	17922.0	19059.0	16422.0	12928.7	9862.6
72.5°	1395.4	1394.3	1509.6	1776.5	2237.7	4933.4	14715.9	16546.9	15956.5	11805.6	8149.1
75°	1060.1	1077.2	1204.3	1503.2	2061.6	2695.7	10269.3	12743.0	12744.1	9324.5	5085.0
77.5°	764.4	775.1	923.5	1261.9	1942.0	2185.4	6840.2	9139.8	8592.1	4272.6	1598.2
80°	500.7	507.1	620.3	999.3	1750.9	2061.6	4055.8	5594.3	4052.6	1133.8	528.5
82.5°	274.4	306.4	379.0	647.0	1405.0	1904.6	2465.1	2831.3	1520.3	505.0	275.4
85°	137.7	146.3	213.5	377.9	918.1	1575.8	1716.7	1623.8	784.7	250.9	143.1
87.5°	40.6	51.2	88.6	146.3	372.6	821.0	955.5	857.3	302.1	90.7	29.9
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°	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0	5290.0
2.5°	5246.2	5227.0	5141.6	5064.7	4994.3	4919.5	4856.6	4801.0	4806.4	4807.4	4750.9
5°	5126.7	5082.9	4920.6	4769.0	4640.9	4478.6	4339.8	4250.2	4205.3	4145.5	4166.9
7.5°	4964.4	4880.0	4654.8	4402.8	4166.9	3956.6	3728.1	3571.2	3470.8	3373.6	3386.5
10°	4796.8	4661.2	4333.4	4000.3	3695.0	3358.7	3067.2	2817.4	2631.7	2562.3	2516.4
12.5°	4624.9	4446.6	4030.2	3587.2	3165.5	2763.0	2349.8	2081.8	1876.9	1768.0	1781.8
15°	4467.9	4251.2	3714.2	3174.0	2626.3	2147.0	1734.9	1479.7	1336.6	1306.8	1323.8
17.5°	4322.8	4038.8	3418.5	2772.6	2133.1	1610.0	1303.6	1159.4	1101.8	1085.8	1084.7
20°	4173.3	3858.3	3086.5	2343.4	1662.3	1248.0	1069.7	1002.5	991.8	998.2	999.3
22.5°	4021.7	3635.2	2744.8	1917.4	1323.8	1020.6	935.2	917.1	925.6	940.6	942.7
25°	3881.8	3438.8	2416.0	1543.8	1056.9	896.8	855.2	855.2	874.4	896.8	897.9
27.5°	3766.5	3248.7	2088.2	1225.6	885.0	807.1	793.2	800.7	827.4	844.5	845.5
30°	3671.5	3071.5	1778.6	982.2	778.3	735.6	732.4	745.2	764.4	780.4	781.5
32.5°	3600.0	2915.6	1489.3	825.3	704.6	681.1	680.1	689.7	700.4	704.6	708.9
35°	3572.2	2786.5	1224.5	726.0	655.5	640.6	640.6	639.5	643.8	645.9	648.0
37.5°	3594.6	2687.2	1019.6	661.9	619.2	608.5	602.1	595.7	593.6	593.6	594.7
40°	3689.7	2634.9	866.9	620.3	593.6	577.6	565.8	558.4	550.9	553.0	555.2
42.5°	3891.4	2644.5	763.3	592.5	571.2	548.8	531.7	523.1	517.8	524.2	523.1
45°	4212.8	2740.6	697.1	573.3	548.8	519.9	503.9	495.4	495.4	505.0	508.2
47.5°	4662.3	2924.2	661.9	558.4	531.7	497.5	481.5	475.1	477.2	493.2	494.3
50°	5211.0	3243.4	655.5	550.9	523.1	481.5	463.3	456.9	462.3	479.4	481.5
52.5°	5816.3	3654.4	686.5	552.0	515.7	471.9	448.4	438.8	444.1	458.0	462.3
55°	6533.8	4169.0	766.5	556.2	505.0	466.5	437.7	416.4	422.8	432.4	433.4
57.5°	7266.1	4818.1	907.5	557.3	496.4	456.9	419.6	391.8	391.8	398.2	401.4
60°	8160.8	5524.9	1093.2	558.4	497.5	443.1	395.0	364.1	359.8	363.0	364.1
62.5°	9049.1	6116.3	1124.2	555.2	508.2	429.2	368.3	336.3	328.8	327.8	325.6
65°	9440.9	6006.4	921.3	540.2	519.9	420.6	347.0	309.6	296.8	292.5	292.5
67.5°	8802.4	5080.8	692.9	519.9	512.5	412.1	326.7	287.2	272.2	263.7	263.7
69°	8202.4	4519.2	622.4	506.0	493.2	398.2	313.9	275.4	257.3	247.7	244.5
70°	7739.1	4132.7	592.5	494.3	475.1	382.2	304.3	266.9	246.6	235.9	233.8
72.5°	6176.1	3242.3	518.9	449.5	404.6	321.4	270.1	240.2	221.0	209.3	206.0
75°	3559.4	1757.3	430.2	390.7	325.6	249.8	228.5	209.3	194.3	183.6	180.4
77.5°	1095.4	679.0	311.7	308.5	239.1	193.2	182.6	175.1	164.4	152.7	150.5
80°	461.2	345.9	211.4	208.2	159.1	134.5	131.3	130.2	126.0	116.4	113.2
82.5°	253.0	195.4	147.3	128.1	96.1	77.9	81.1	82.2	79.0	69.4	63.0
85°	123.8	106.8	71.5	57.7	43.8	27.8	26.7	32.0	29.9	21.4	23.5
87.5°	24.6	29.9	19.2	8.5	4.3	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)