

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: P192977

Luminaire Tested: **GAN-AF-09-LED-U-SL4-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL4-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32221.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 290
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: 28.75 FT

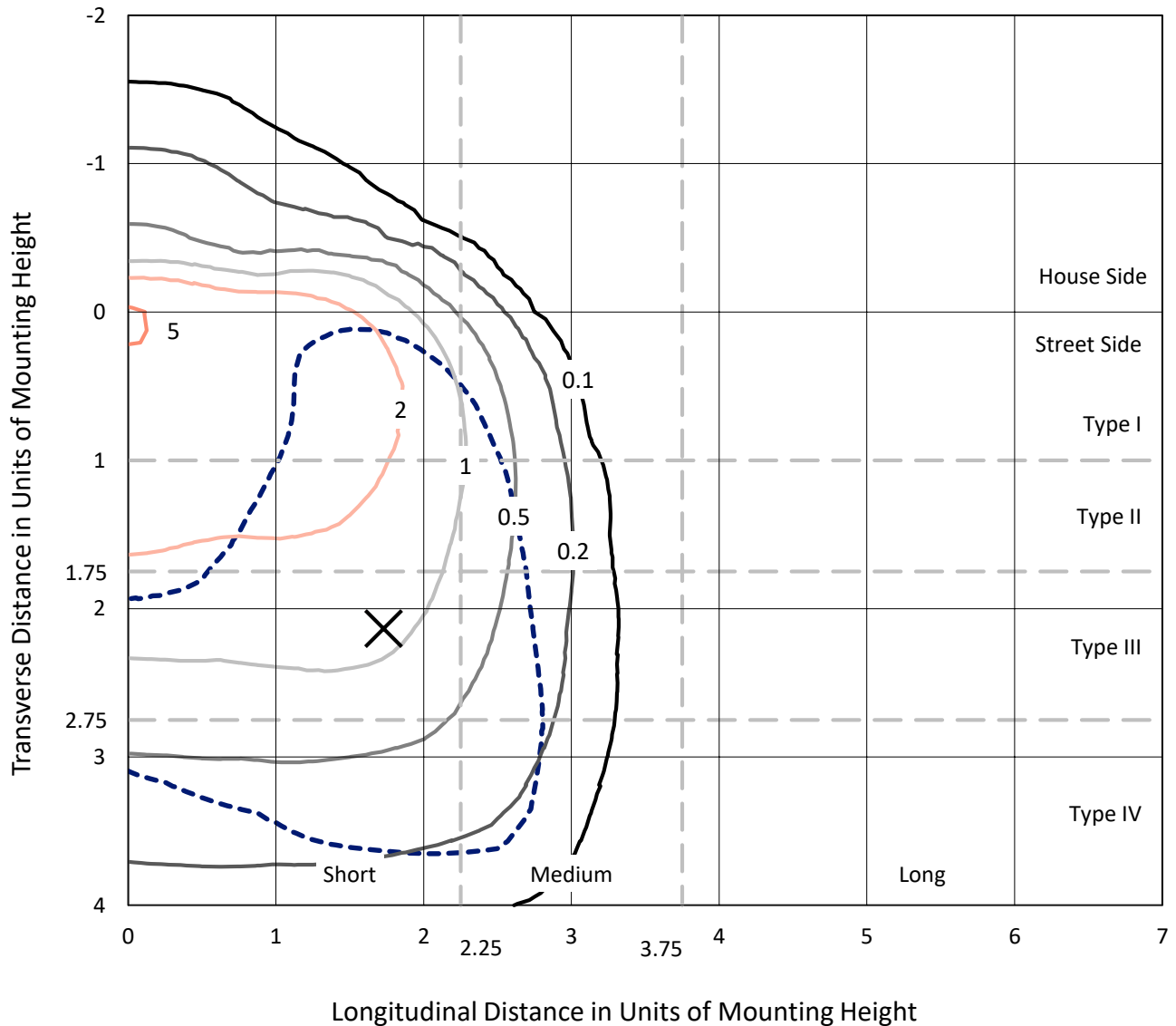


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

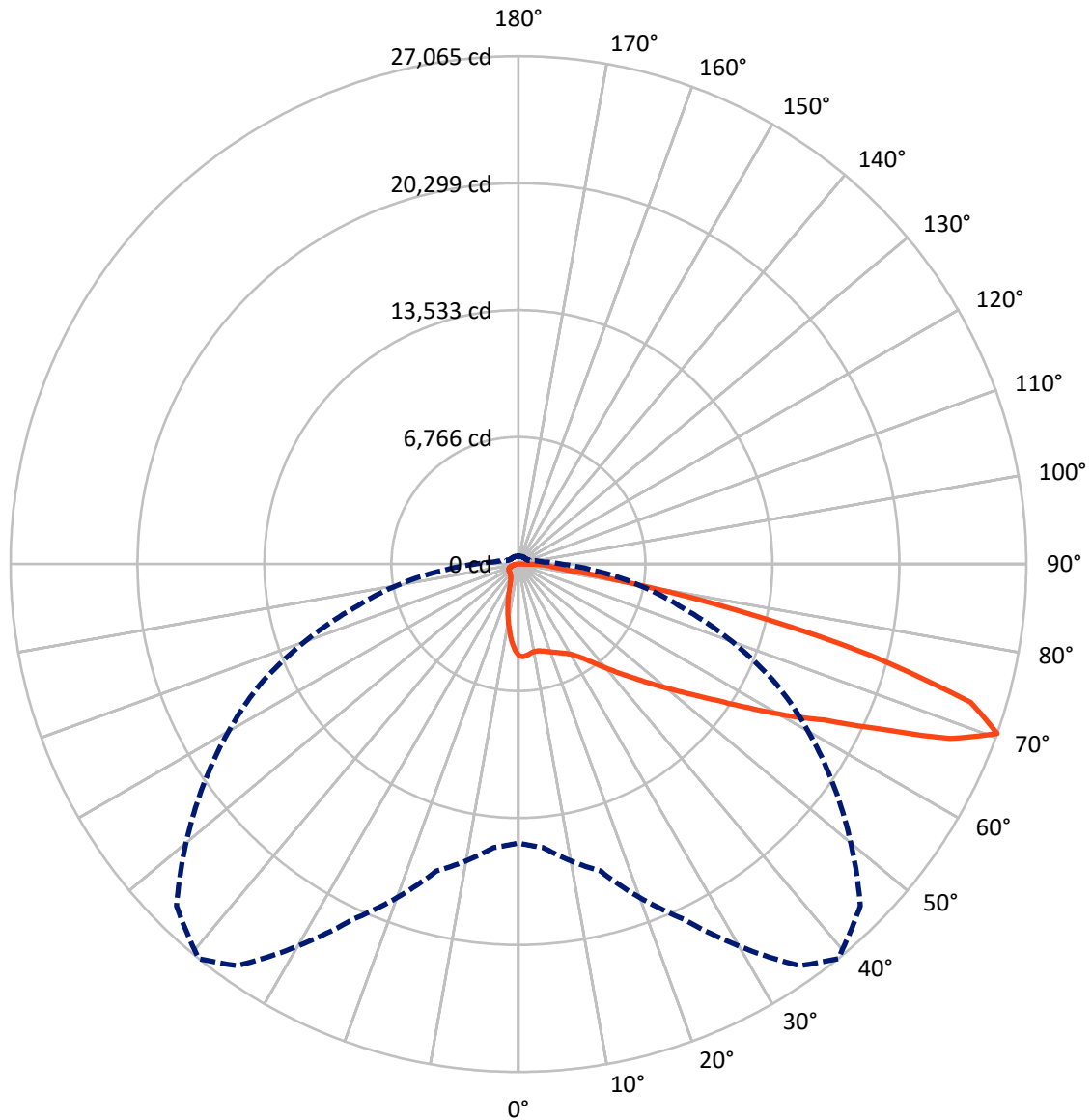


Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3664.7	0.0	3664.7
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	28557.0	0.0	28557.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	32221.6	0.0	32221.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	1.3
10°-20°	1049.3	3.3
20°-30°	1633.9	5.1
30°-40°	2545.3	7.9
40°-50°	4273.1	13.3
50°-60°	6788.1	21.1
60°-70°	9054.6	28.1
70°-80°	5467.9	17.0
80°-90°	989.6	3.1
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°	32221.6	100.0
0°-180°	32221.6	100.0



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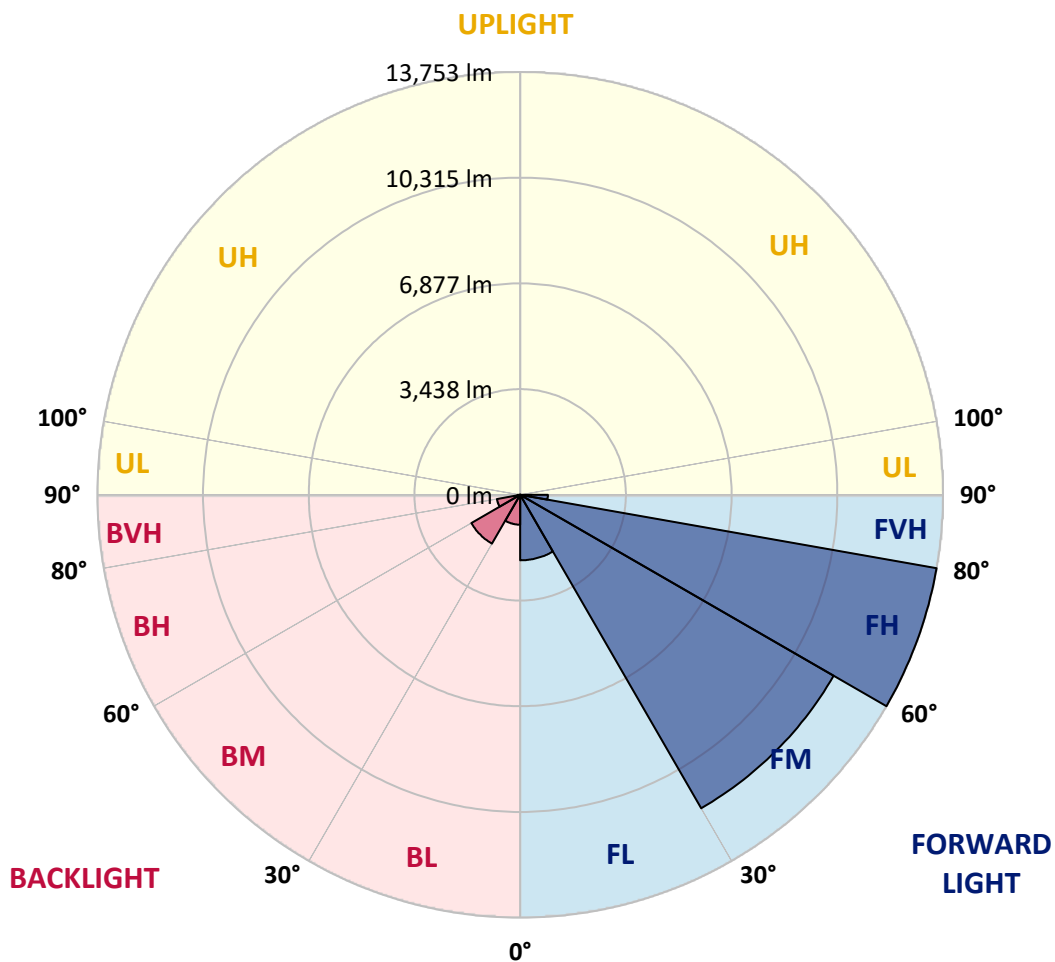
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.9	6.6			
FM (30°-60°)	11772.5	36.5			
FH (60°-80°)	13753.1	42.7			G5
FVH (80°-90°)	900.4	2.8			G5
BL (0°-30°)	972.2	3.0	B2/1000		
BM (30°-60°)	1834.0	5.7	B2/2500		
BH (60°-80°)	769.4	2.4	B2/1000		G2/1000
BVH (80°-90°)	89.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7
2.5°	4986.8	4985.2	4972.1	4962.2	4954.1	4950.7	4957.3	4932.7	4911.4	4885.2	4857.3
5°	4949.1	4947.5	4926.2	4906.5	4886.8	4880.3	4878.7	4834.4	4808.2	4768.8	4716.5
7.5°	4908.2	4899.9	4872.1	4839.3	4804.9	4788.5	4772.1	4714.9	4685.4	4646.0	4585.4
10°	4865.6	4855.7	4829.5	4796.7	4763.9	4739.3	4711.6	4655.9	4624.7	4595.2	4524.8
12.5°	4821.3	4813.1	4806.6	4791.8	4768.8	4747.6	4726.3	4678.8	4646.0	4611.7	4529.7
15°	4814.7	4811.4	4826.2	4836.1	4822.9	4809.8	4786.8	4745.9	4711.6	4677.2	4570.7
17.5°	4867.2	4865.6	4903.2	4929.4	4922.9	4899.9	4868.8	4822.9	4795.1	4765.6	4632.9
20°	4981.9	4990.1	5035.9	5070.2	5037.5	5004.7	4954.1	4890.1	4875.3	4862.2	4696.8
22.5°	5198.1	5206.3	5239.1	5252.2	5167.0	5119.5	5049.0	4967.2	4957.3	4967.2	4773.7
25°	5535.6	5527.4	5522.5	5473.4	5317.6	5244.0	5153.9	5068.6	5073.6	5117.8	4881.9
27.5°	5982.8	5938.6	5869.7	5722.4	5475.0	5393.0	5283.2	5204.7	5235.8	5320.9	5044.1
30°	6446.4	6397.2	6238.3	5997.6	5681.4	5591.3	5468.4	5379.9	5461.9	5596.2	5260.4
32.5°	6875.6	6869.1	6636.4	6326.8	5966.4	5887.8	5764.9	5665.0	5797.8	6002.4	5584.7
35°	7344.2	7358.9	7080.4	6708.5	6351.5	6269.6	6181.1	6105.6	6282.6	6564.4	6054.9
37.5°	7845.5	7875.0	7545.7	7126.3	6790.5	6756.0	6703.6	6670.9	6944.4	7334.3	6711.8
40°	8515.5	8486.0	8028.9	7598.1	7329.4	7327.8	7311.4	7350.8	7806.1	8340.2	7555.5
42.5°	9233.1	9146.2	8541.7	8104.3	7920.9	7976.6	8009.2	8169.9	8843.1	9562.4	8584.3
45°	10006.3	9811.4	9074.1	8640.0	8577.7	8695.7	8807.1	9156.0	10063.7	10953.1	9711.4
47.5°	10624.0	10435.5	9624.5	9202.0	9337.9	9516.5	9731.0	10283.2	11429.9	12389.9	10823.8
50°	11110.5	10987.5	10179.9	9857.3	10175.0	10450.2	10800.9	11559.3	12851.8	13788.9	11854.2
52.5°	11582.2	11490.6	10740.1	10528.9	11158.0	11538.0	12014.8	12928.8	14309.9	15165.0	12720.8
55°	12008.2	11942.7	11343.1	11366.0	12314.5	12809.3	13408.9	14488.5	15899.0	16392.0	13454.7
57.5°	12488.3	12404.6	12031.2	12416.1	13800.4	14442.7	15222.4	16241.4	17389.8	17483.1	14013.4
60°	12971.5	12899.3	12794.6	13628.5	15687.7	16362.5	17101.5	17940.3	18901.9	18330.1	13980.6
62.5°	13390.9	13399.0	13584.2	14901.4	17535.6	18317.0	19218.0	20047.0	20269.8	18477.6	12946.9
65°	14101.9	14231.2	14783.4	16703.3	20137.1	21182.3	22288.2	22155.4	20648.3	17099.8	10730.4
67.5°	14947.2	15174.9	16293.9	19105.0	23424.9	24812.6	25240.2	22632.1	19132.8	13900.4	7648.9
70°	14862.0	15174.9	16945.8	20895.7	26134.6	27065.1	25767.7	20482.8	15192.9	9080.6	4062.8
72.5°	13197.5	13644.9	15617.2	20074.9	25281.2	25199.2	22370.0	15270.0	9026.7	3646.7	1587.4
75°	10058.7	10510.8	12208.1	15859.6	19981.5	19293.4	15872.7	8435.3	3425.5	1448.2	1001.0
77.5°	5786.3	6136.8	7447.3	9726.1	12676.6	11970.6	8834.9	3751.5	1667.8	1009.1	781.4
80°	3230.6	3425.5	4221.7	4934.3	6212.2	5694.5	3953.0	2331.1	1245.0	732.2	602.9
82.5°	2554.1	2727.6	3414.1	3112.6	2837.5	2617.9	2270.6	2075.6	994.4	461.9	360.4
85°	2231.3	2396.7	2889.8	2450.8	1938.0	1777.4	1844.7	2042.8	773.2	278.5	308.0
87.5°	2067.4	2288.7	2575.2	1888.9	1508.8	1336.8	1702.2	2239.5	249.0	173.6	124.5
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°	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7	4891.7
2.5°	4832.7	4806.6	4763.9	4726.3	4667.3	4636.2	4601.8	4577.2	4557.5	4541.2	4567.4
5°	4683.7	4634.6	4544.4	4447.8	4333.1	4243.0	4167.7	4097.2	4048.0	4015.3	4038.2
7.5°	4542.8	4462.4	4321.6	4146.4	3949.7	3782.7	3645.1	3523.8	3440.2	3386.2	3407.5
10°	4462.4	4362.6	4144.8	3869.5	3579.6	3319.1	3102.9	2916.0	2786.6	2712.9	2724.4
12.5°	4442.9	4313.4	4012.0	3633.6	3237.2	2875.0	2570.4	2311.5	2129.7	2034.6	2037.9
15°	4457.7	4292.1	3887.6	3407.5	2906.2	2449.1	2069.1	1754.6	1543.2	1435.1	1433.5
17.5°	4482.2	4275.8	3756.5	3163.4	2570.4	2039.6	1615.3	1307.3	1120.6	1033.7	1027.1
20°	4508.4	4249.5	3609.1	2899.6	2221.5	1659.5	1264.6	1023.9	906.0	858.4	855.2
22.5°	4546.1	4226.5	3456.6	2621.1	1879.0	1351.5	1040.2	878.1	815.8	791.2	788.0
25°	4606.7	4215.1	3294.5	2331.1	1571.0	1130.4	906.0	806.0	769.9	753.6	751.9
27.5°	4708.3	4231.5	3142.1	2049.3	1320.4	981.2	830.6	769.9	743.7	729.0	727.3
30°	4839.3	4282.3	2981.5	1782.3	1125.5	879.7	784.7	745.3	724.1	709.3	709.3
32.5°	5057.2	4367.5	2812.9	1551.4	986.2	809.3	750.3	724.1	706.1	694.6	692.9
35°	5378.3	4528.0	2655.5	1359.7	886.3	758.5	720.8	701.1	688.0	681.4	681.4
37.5°	5845.2	4781.9	2516.3	1222.1	825.7	724.1	692.9	678.2	670.1	670.1	670.1
40°	6472.6	5132.6	2403.2	1130.4	791.2	699.5	671.7	660.3	655.3	656.9	656.9
42.5°	7247.5	5587.9	2327.9	1066.5	774.8	684.7	656.9	647.2	642.2	640.6	642.2
45°	8130.5	6105.6	2319.7	1019.0	758.5	675.0	647.2	637.3	627.4	620.9	620.9
47.5°	8989.0	6631.5	2386.9	1002.6	740.4	663.5	638.9	629.2	614.4	599.7	599.7
50°	9747.4	7078.8	2477.0	1009.1	733.9	647.2	625.8	620.9	597.9	581.6	579.9
52.5°	10350.3	7422.8	2550.7	1028.7	740.4	635.7	609.4	611.1	586.5	568.4	566.8
55°	10833.6	7648.9	2531.1	1048.5	755.2	629.2	594.7	597.9	578.3	560.3	560.3
57.5°	11044.9	7565.3	2313.1	1032.1	766.7	630.8	583.2	596.3	579.9	563.6	563.6
60°	10591.1	6823.2	1905.3	960.0	751.9	625.8	578.3	602.9	601.3	584.9	583.2
62.5°	9218.3	5494.6	1477.7	853.6	701.1	601.3	565.2	601.3	619.3	614.4	612.7
65°	7105.0	3913.7	1128.7	738.8	632.4	560.3	530.8	563.6	588.2	594.7	593.1
67.5°	4611.7	2398.3	869.9	630.8	555.4	512.8	486.5	501.3	506.2	506.2	502.9
70°	2267.3	1290.9	692.9	530.8	476.7	461.9	447.2	439.0	430.8	424.3	424.3
72.5°	1119.0	843.7	570.2	448.8	411.2	404.7	401.4	391.5	385.0	376.8	373.5
75°	827.3	686.3	484.9	378.5	353.9	347.3	353.9	345.7	344.0	337.5	334.3
77.5°	679.8	584.9	417.7	324.4	303.0	291.6	301.4	303.0	304.8	294.9	291.6
80°	552.1	494.7	349.0	268.7	249.0	240.8	247.4	260.5	263.8	249.0	242.4
82.5°	398.1	404.7	281.8	209.7	193.3	186.8	199.8	216.3	219.5	198.2	193.3
85°	334.3	337.5	216.3	149.0	132.8	122.9	144.1	160.5	172.0	150.7	145.8
87.5°	139.2	198.2	124.5	83.6	73.8	63.9	77.0	85.2	103.2	95.0	93.4
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)