

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: P323182

Luminaire Tested: **GAN-SA8D-730-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46906 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

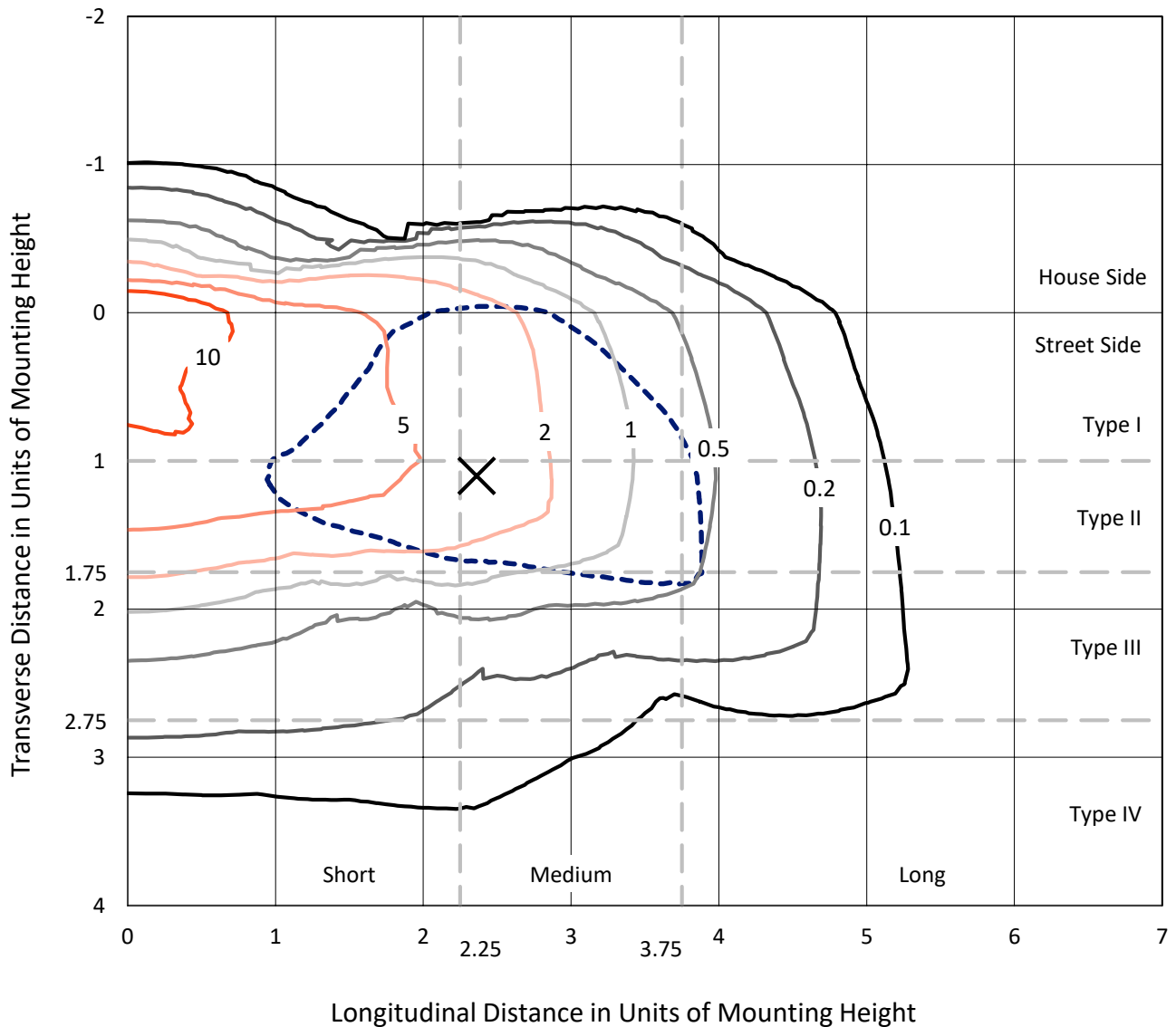
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

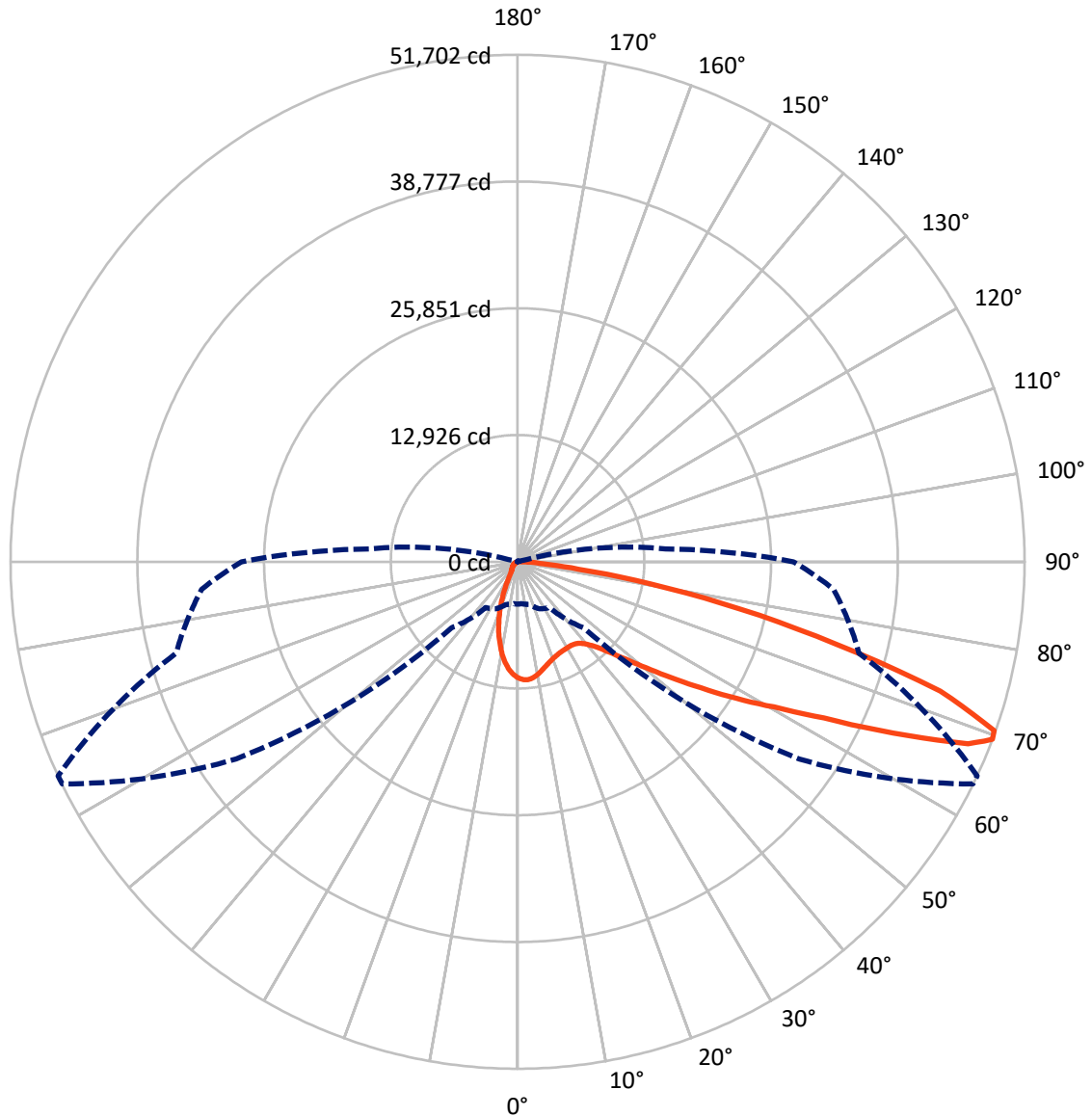
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5529.1	0.0	5529.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	41376.9	0.0	41376.9
	% Fixture	88.2	0.0	88.2
Total	Lumens	46906.0	0.0	46906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	991.2	2.1
10°-20°	2169.7	4.6
20°-30°	3005.2	6.4
30°-40°	4190.1	8.9
40°-50°	6512.9	13.9
50°-60°	10455.7	22.3
60°-70°	11827.1	25.2
70°-80°	6946.2	14.8
80°-90°	808.0	1.7
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°	46906.0	100.0
0°-180°	46906.0	100.0

Coefficient of Utilization

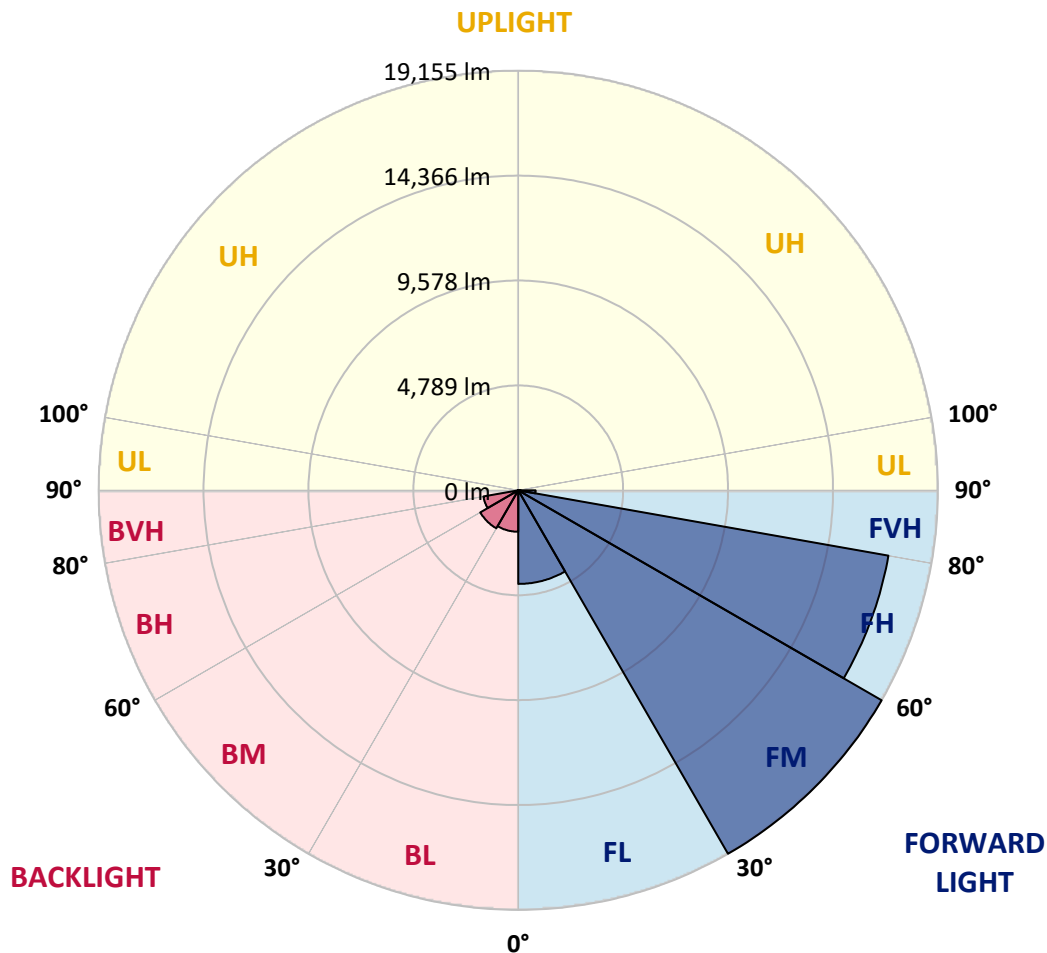


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4274.2	9.1			
FM (30°-60°)	19155.1	40.8			
FH (60°-80°)	17157.8	36.6			G5
FVH (80°-90°)	789.8	1.7			G5
BL (0°-30°)	1891.8	4.0	B3/2500		
BM (30°-60°)	2003.6	4.3	B2/2500		
BH (60°-80°)	1615.5	3.4	B3/2500		G3/2500
BVH (80°-90°)	18.2	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2
2.5°	11958.4	11928.7	11952.5	12004.1	12029.9	12029.9	12049.7	12025.9	12033.8	11976.3	11892.9
5°	11210.2	11164.5	11230.0	11374.9	11553.5	11706.4	11932.6	12051.7	12063.6	12065.6	11968.3
7.5°	10404.3	10362.6	10459.9	10630.6	10860.8	11144.7	11539.6	11885.0	11904.8	12091.4	12020.0
10°	9749.3	9719.6	9832.7	10015.3	10285.2	10602.8	11087.1	11567.4	11625.0	12037.8	12012.0
12.5°	9229.3	9205.5	9312.7	9523.1	9799.0	10150.3	10656.4	11214.1	11291.5	11916.7	11972.3
15°	8850.2	8846.3	8935.6	9138.0	9443.7	9771.2	10289.2	10886.6	10975.9	11785.7	11966.4
17.5°	8651.7	8657.7	8723.2	8895.9	9157.9	9483.4	9979.6	10610.7	10708.0	11668.6	11996.1
20°	8631.9	8637.9	8673.6	8770.8	8983.2	9271.0	9727.5	10378.5	10479.7	11581.3	12043.8
22.5°	8806.6	8802.6	8812.5	8802.6	8921.7	9140.0	9560.8	10199.9	10317.0	11523.8	12081.5
25°	9142.0	9136.0	9132.1	9058.6	8979.2	9096.3	9491.3	10098.7	10209.8	11482.1	12103.3
27.5°	9608.4	9604.4	9598.5	9477.4	9239.2	9165.8	9499.3	10061.0	10154.2	11448.3	12099.3
30°	10221.7	10249.5	10241.6	10072.9	9701.7	9378.2	9582.6	10041.1	10122.5	11382.8	12057.7
32.5°	10942.2	10997.8	11041.4	10860.8	10396.4	9799.0	9775.1	10062.9	10122.5	11333.2	11982.2
35°	11690.5	11761.9	11922.7	11859.2	11247.9	10432.1	10106.6	10193.9	10243.6	11361.0	11946.5
37.5°	12426.8	12512.2	12861.5	13046.1	12363.3	11269.7	10622.7	10517.5	10543.3	11529.7	11986.2
40°	13282.3	13411.3	13941.2	14239.0	13695.1	12391.1	11394.7	11073.2	11083.1	11900.9	12170.8
42.5°	14405.7	14538.7	15112.3	15578.7	15195.6	13808.3	12442.7	11922.7	11912.8	12595.5	12605.5
45°	15775.2	15914.1	16507.6	17025.6	16852.9	15487.4	13784.4	13163.2	13151.3	13691.2	13429.2
47.5°	17327.3	17464.3	17994.2	18528.1	18714.7	17448.4	15493.4	14856.2	14828.4	15213.5	14701.4
50°	18659.1	18748.4	19236.7	19955.2	20796.7	19857.9	17619.1	17005.8	16976.0	17236.0	16569.1
52.5°	19143.4	19195.0	19691.2	20697.5	22797.4	23120.9	20411.7	19621.7	19599.9	19713.0	19056.1
55°	18162.9	18256.2	18865.5	20358.1	23881.1	26808.7	23936.7	22860.9	22696.2	22452.1	21656.2
57.5°	15491.4	15640.2	16295.2	18280.0	23375.0	29734.3	29117.0	26524.9	26282.7	24790.2	23770.0
60°	11607.1	11789.7	12333.6	14475.1	20673.7	30776.3	34777.7	30607.6	30061.8	26651.9	25713.1
62.5°	7965.0	8056.3	8425.5	9820.8	15225.4	29069.4	39513.4	36075.7	35079.4	28676.4	27815.0
65°	6083.4	6115.2	6266.0	6746.3	9066.6	23613.2	41397.0	43290.5	42085.7	31097.9	29996.3
67.5°	4902.5	4876.7	5085.1	5771.8	6071.5	14405.7	39199.8	50116.2	49552.5	34335.1	32191.5
69°	4322.9	4287.2	4499.5	5297.4	5702.3	9523.1	35043.6	51666.3	51702.1	36044.0	32342.3
70°	3890.2	3914.0	4124.4	5015.6	5577.3	7474.8	31074.0	51271.4	51553.2	36683.1	31437.3
72.5°	2598.1	2661.6	3084.4	4164.1	5362.9	5656.7	18762.3	43997.1	45080.8	35244.1	26971.5
75°	1464.8	1512.4	2014.6	3140.0	5053.3	5386.7	9910.1	32413.8	33461.8	29472.3	20798.7
77.5°	718.5	744.3	1139.3	2026.5	4225.6	5132.7	5621.0	22017.4	23214.2	19236.7	11763.9
80°	303.7	317.6	569.6	1250.4	3020.9	4898.5	4174.0	13550.2	13699.1	7536.3	3134.0
82.5°	117.1	121.1	240.2	780.0	1919.3	3818.8	3491.3	6424.8	6270.0	1419.1	714.5
85°	13.9	15.9	87.3	468.4	1067.8	1965.0	2836.3	2768.8	2562.4	281.8	367.2
87.5°	0.0	0.0	6.0	142.9	317.6	920.9	1474.7	1149.2	1036.1	91.3	190.5
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°	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2	11853.2
2.5°	11823.5	11803.6	11696.4	11541.6	11394.7	11212.1	11037.5	10932.3	10848.9	10793.3	10858.8
5°	11855.2	11767.9	11442.4	11025.6	10616.7	10156.2	9727.5	9364.3	9221.4	9062.6	9134.1
7.5°	11845.3	11680.6	11095.0	10352.7	9602.5	8826.4	8092.0	7526.4	7232.6	6944.8	7018.3
10°	11795.7	11517.8	10630.6	9531.0	8407.6	7292.2	6250.1	5458.2	5015.6	4614.7	4672.2
12.5°	11686.5	11299.5	10082.8	8590.2	7087.7	5617.0	4396.3	3382.1	2838.3	2598.1	2627.9
15°	11621.0	11087.1	9503.2	7637.5	5678.5	3912.0	2687.4	1998.7	1750.6	1671.2	1681.1
17.5°	11589.2	10882.7	8903.8	6547.9	4237.5	2490.9	1736.7	1532.3	1478.7	1464.8	1468.8
20°	11557.5	10676.2	8286.5	5470.1	2919.6	1675.2	1427.1	1367.5	1347.7	1329.8	1333.8
22.5°	11503.9	10477.8	7623.6	4378.5	1968.9	1359.6	1286.2	1228.6	1186.9	1165.1	1169.0
25°	11438.4	10269.4	6946.8	3261.0	1437.0	1212.7	1143.2	1061.9	1012.2	972.6	974.5
27.5°	11333.2	10013.3	6248.2	2373.8	1206.8	1085.7	992.4	903.1	819.7	774.1	774.1
30°	11186.3	9723.5	5472.1	1699.0	1081.7	960.6	847.5	736.4	647.0	605.4	601.4
32.5°	11023.6	9421.8	4688.1	1288.1	982.5	843.5	714.5	597.4	518.0	484.3	482.3
35°	10884.6	9096.3	3906.1	1079.7	883.2	730.4	589.5	490.2	426.7	398.9	397.0
37.5°	10795.3	8770.8	3143.9	964.6	793.9	625.2	494.2	404.9	359.2	337.4	335.4
40°	10781.4	8528.7	2447.3	877.3	710.6	531.9	412.8	343.4	301.7	277.9	275.9
42.5°	10962.1	8389.8	1877.6	803.8	625.2	450.5	351.3	293.8	250.1	226.3	224.3
45°	11436.4	8433.4	1444.9	738.3	539.9	381.1	297.7	244.1	204.4	186.6	182.6
47.5°	12301.8	8735.1	1149.2	672.8	458.5	323.5	254.1	202.4	168.7	150.8	148.9
50°	13842.0	9443.7	960.6	601.4	383.1	275.9	210.4	164.7	137.0	121.1	119.1
52.5°	15886.3	10706.0	857.4	531.9	317.6	234.2	172.7	131.0	107.2	95.3	93.3
55°	18141.1	12234.3	790.0	456.5	260.0	194.5	137.0	103.2	83.4	73.4	69.5
57.5°	20342.2	13558.2	726.4	383.1	216.3	158.8	109.2	81.4	65.5	55.6	53.6
60°	22364.7	14774.9	653.0	307.6	176.6	125.0	85.3	63.5	51.6	41.7	41.7
62.5°	24530.1	15715.7	551.8	240.2	144.9	95.3	69.5	57.6	41.7	35.7	33.7
65°	26824.6	16414.3	432.7	186.6	113.1	71.5	57.6	59.5	33.7	25.8	23.8
67.5°	28519.6	16275.4	319.6	146.9	87.3	55.6	55.6	63.5	29.8	19.8	17.9
69°	28146.5	15146.0	267.9	127.0	75.4	47.6	51.6	63.5	27.8	17.9	15.9
70°	27064.7	13895.6	236.2	113.1	67.5	43.7	49.6	61.5	25.8	17.9	15.9
72.5°	22539.4	10465.9	184.6	85.3	53.6	35.7	41.7	53.6	25.8	17.9	13.9
75°	16954.2	6698.7	140.9	61.5	39.7	27.8	31.8	39.7	25.8	15.9	13.9
77.5°	9225.4	2415.5	101.2	41.7	27.8	21.8	21.8	29.8	23.8	11.9	7.9
80°	2371.8	607.3	63.5	27.8	21.8	15.9	13.9	19.8	13.9	2.0	0.0
82.5°	585.5	137.0	33.7	19.8	15.9	6.0	6.0	9.9	6.0	0.0	0.0
85°	321.5	67.5	21.8	13.9	7.9	0.0	0.0	2.0	0.0	0.0	0.0
87.5°	164.7	19.8	6.0	4.0	2.0	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)