

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: P324771

Luminaire Tested: **GAN-SA7C-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37297 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

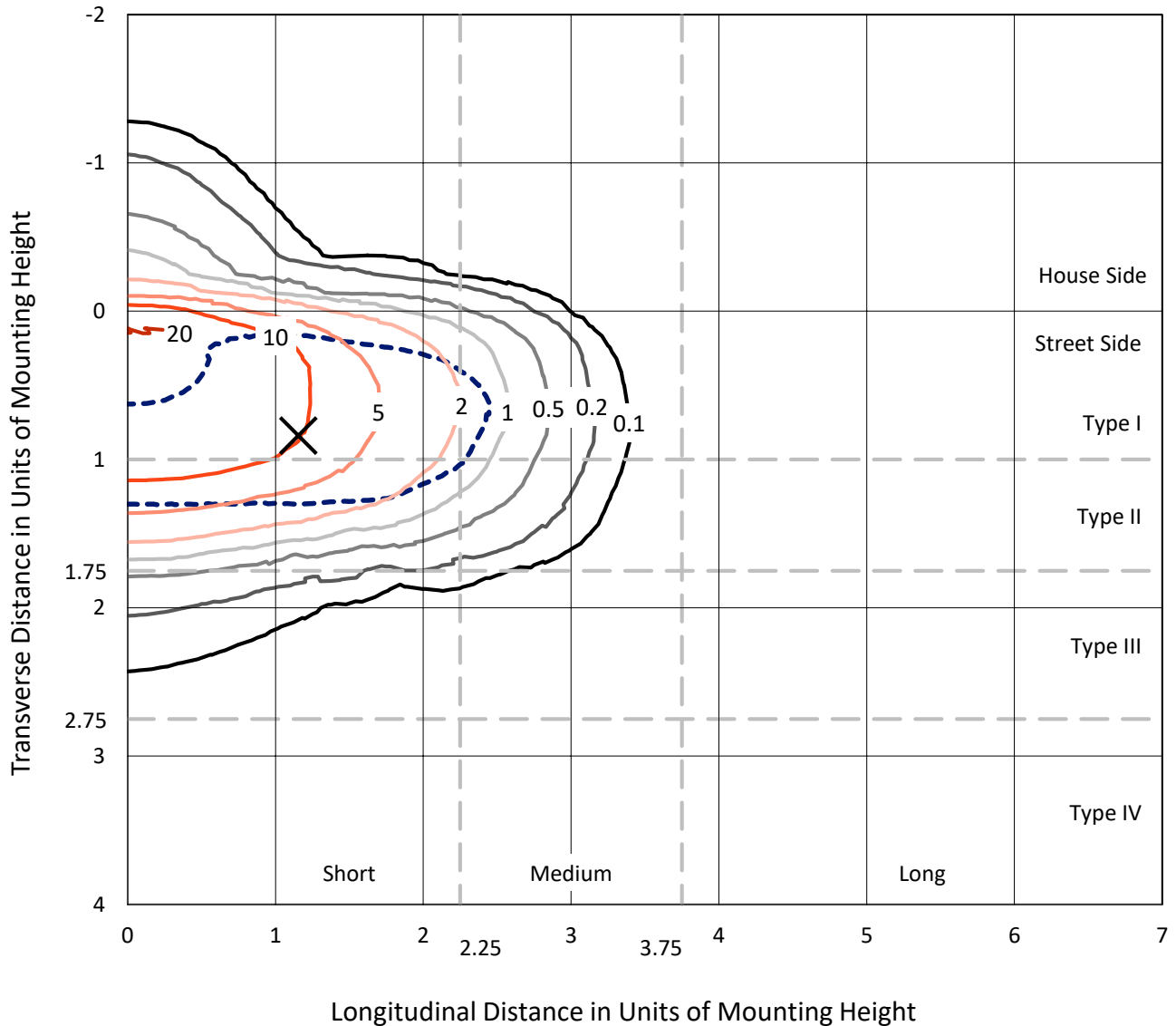
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

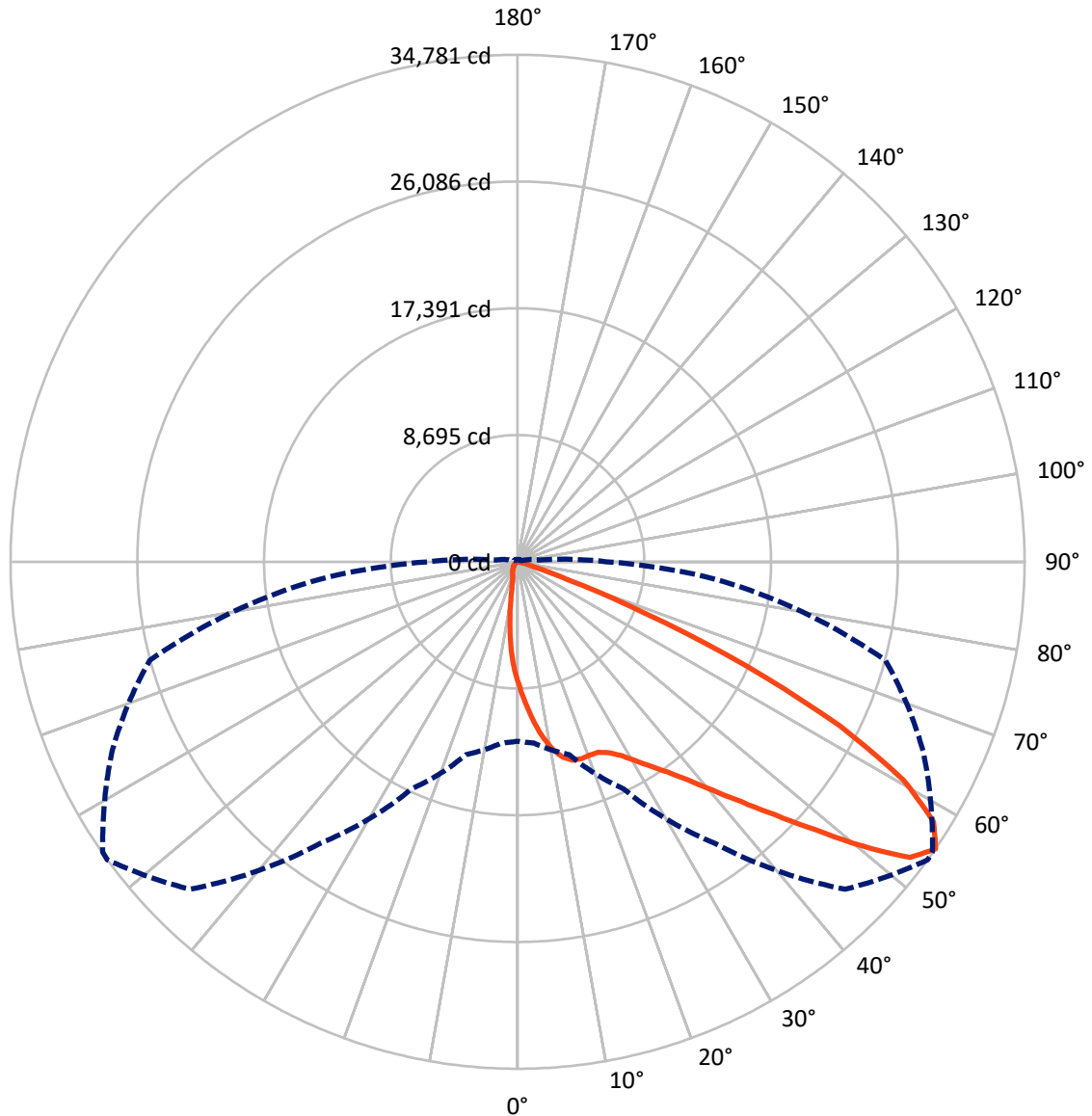
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.9	0.0	1860.9
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	35436.2	0.0	35436.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	37297.0	0.0	37297.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.2	2.1
10°-20°	2109.6	5.7
20°-30°	3601.8	9.7
30°-40°	5780.3	15.5
40°-50°	9236.9	24.8
50°-60°	9897.6	26.5
60°-70°	5081.7	13.6
70°-80°	769.8	2.1
80°-90°	50.1	0.1
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°	37297.0	100.0
0°-180°	37297.0	100.0

Coefficient of Utilization

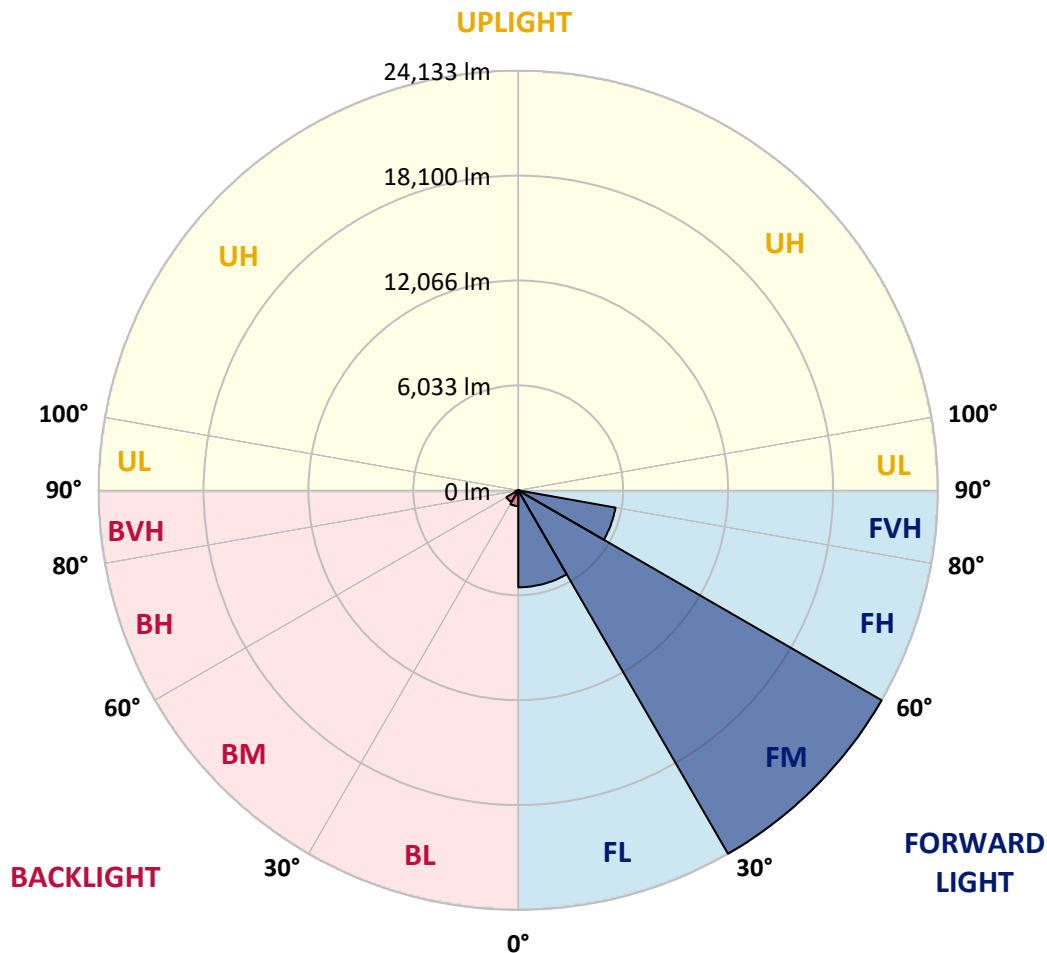


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5575.3	14.9			
FM (30°-60°)	24132.8	64.7			
FH (60°-80°)	5680.0	15.2			G3/7500
FVH (80°-90°)	48.1	0.1			G1/100
BL (0°-30°)	905.4	2.4	B2/1000		
BM (30°-60°)	782.0	2.1	B1/1000		
BH (60°-80°)	171.5	0.5	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0
2.5°	10482.4	10326.1	10331.0	10260.1	10000.8	9797.8	9586.8	9536.9	9208.3	8863.6	8531.8
5°	12294.4	12180.0	12152.6	12015.7	11654.9	11273.2	10864.1	10769.1	10126.4	9420.9	8726.7
7.5°	13225.4	13227.0	13204.4	13154.5	12929.0	12558.5	12059.2	11959.4	11084.8	10026.5	8929.7
10°	12954.8	13016.0	13141.6	13307.5	13479.9	13433.1	13057.9	12967.7	12017.3	10667.6	9155.2
12.5°	12323.4	12331.4	12471.6	12743.8	13239.9	13748.8	13755.3	13724.7	12908.1	11337.6	9403.2
15°	12009.3	12039.9	12091.4	12267.0	12737.3	13552.3	14135.4	14178.9	13724.7	12049.6	9667.4
17.5°	12215.5	12259.0	12215.5	12236.4	12508.6	13241.5	14201.4	14312.6	14438.2	12753.4	9917.0
20°	12774.4	12814.6	12737.3	12652.0	12705.1	13151.3	14154.7	14304.5	14997.1	13378.4	10126.4
22.5°	13528.2	13544.3	13426.7	13286.6	13247.9	13457.3	14193.4	14348.0	15444.9	13943.7	10258.5
25°	14357.7	14372.2	14225.6	14064.5	13972.7	14058.1	14510.7	14626.7	15839.5	14483.3	10334.2
27.5°	15261.3	15274.2	15090.5	14892.4	14786.1	14789.3	15034.2	15158.2	16259.9	15098.6	10395.4
30°	16216.4	16210.0	16040.8	15765.4	15630.1	15626.9	15788.0	15913.6	16868.7	15887.8	10479.1
32.5°	17289.1	17276.2	17036.3	16694.8	16541.8	16564.3	16707.7	16780.2	17624.2	16728.6	10628.9
35°	18701.7	18664.7	18302.3	17878.6	17596.8	17588.7	17709.5	17767.5	18587.3	17746.6	10878.6
37.5°	20534.7	20500.8	20009.6	19394.3	18998.1	18849.9	18993.2	19067.3	19961.3	19052.8	11279.7
40°	22341.9	22308.0	22016.5	21452.8	20842.3	20486.3	20599.1	20678.0	21676.6	20637.8	11785.4
42.5°	23588.5	23617.5	23719.0	23765.7	23193.9	22446.6	22498.1	22580.2	23479.0	22332.2	12363.6
45°	23917.1	23979.9	24553.3	25679.2	25893.4	25310.4	24770.8	24815.9	25310.4	24026.6	12941.9
47.5°	22929.8	23045.7	24152.3	26246.2	28059.8	28472.1	27451.0	27391.4	27067.6	25397.3	13352.6
50°	20686.1	20792.4	22225.9	25323.2	28717.0	31490.6	30662.7	30487.1	28609.1	26217.2	13497.6
52.5°	17438.9	17567.8	18732.3	22417.6	27478.3	32837.1	33703.7	33557.1	29739.8	26281.6	13521.7
55°	12315.3	12471.6	13703.7	17181.2	23553.1	31766.0	34781.2	34737.7	30678.8	26110.9	13573.3
57.5°	6921.1	7033.9	8362.7	11013.9	17250.5	27668.4	33655.3	33943.7	31245.7	25814.5	13650.6
60°	3073.2	3103.8	3791.6	5482.8	10099.0	21145.1	30432.4	30918.8	30759.3	25418.3	13781.1
62.5°	1704.1	1678.3	1678.3	2279.1	4389.1	13090.1	24815.9	25619.6	28683.1	24949.6	13787.5
65°	1335.3	1311.1	1241.8	1251.5	1671.9	5809.8	17184.4	18613.1	24740.2	23575.6	13323.6
67.5°	1132.3	1111.4	1042.1	1014.7	1038.9	1916.7	9441.9	10925.3	18772.6	20004.8	11540.6
70°	956.7	942.3	906.8	873.0	811.8	947.1	3612.8	4621.1	11568.0	13307.5	7877.9
72.5°	769.9	763.5	776.4	747.4	673.3	631.4	1235.4	1496.3	5196.1	5938.6	3245.5
75°	663.6	660.4	666.8	637.8	554.1	439.7	628.2	686.2	1465.7	1452.8	657.2
77.5°	431.7	436.5	552.5	539.6	476.8	293.1	325.4	351.1	444.6	333.4	199.7
80°	275.4	272.2	280.3	447.8	428.4	223.9	162.7	170.7	214.2	164.3	96.6
82.5°	167.5	164.3	183.6	209.4	215.8	156.2	99.9	101.5	133.7	106.3	51.5
85°	14.5	19.3	111.1	103.1	74.1	48.3	48.3	51.5	70.9	62.8	29.0
87.5°	0.0	0.0	19.3	29.0	16.1	17.7	17.7	19.3	27.4	27.4	14.5
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°	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0	8353.0
2.5°	8359.5	8192.0	7853.7	7528.4	7252.9	6987.2	6684.4	6384.8	6244.6	6188.3	6130.3
5°	8374.0	8029.3	7331.9	6629.6	5901.6	5246.0	4687.1	4113.7	3827.0	3701.4	3643.4
7.5°	8393.3	7868.2	6740.7	5561.7	4389.1	3500.0	2723.7	2224.4	2008.5	1974.7	1890.9
10°	8396.5	7673.3	6054.6	4382.7	2942.7	2110.0	1623.6	1365.9	1270.8	1254.7	1227.3
12.5°	8403.0	7443.0	5292.7	3245.5	1961.8	1411.0	1174.2	1088.8	1063.1	1061.4	1061.4
15°	8422.3	7201.4	4501.9	2338.7	1409.4	1117.8	1030.8	997.0	987.4	992.2	990.6
17.5°	8422.3	6916.3	3725.5	1742.8	1138.8	1005.1	956.7	934.2	931.0	935.8	937.4
20°	8361.1	6570.0	3013.6	1356.2	1009.9	932.6	889.1	868.2	860.1	863.3	864.9
22.5°	8214.5	6144.8	2433.8	1122.6	924.5	866.6	819.8	787.6	774.7	776.4	776.4
25°	7985.8	5640.6	1903.8	971.2	855.3	795.7	740.9	703.9	695.8	694.2	697.4
27.5°	7692.6	5083.3	1515.7	855.3	773.1	716.8	662.0	631.4	624.9	626.6	628.2
30°	7404.3	4505.1	1195.1	757.0	681.3	628.2	586.3	571.8	571.8	576.6	578.2
32.5°	7140.2	3949.4	945.5	671.7	599.2	550.9	526.7	525.1	533.1	536.4	538.0
35°	6913.1	3435.6	782.8	605.6	534.7	492.9	484.8	491.3	500.9	507.4	509.0
37.5°	6752.0	2976.6	684.5	550.9	484.8	451.0	449.4	462.3	475.2	489.6	492.9
40°	6684.4	2588.4	616.9	502.5	444.6	418.8	413.9	431.7	455.8	476.8	480.0
42.5°	6628.0	2271.1	558.9	455.8	412.3	375.3	373.7	396.2	425.2	446.2	451.0
45°	6579.7	2016.6	505.8	405.9	370.5	322.1	327.0	356.0	378.5	401.1	405.9
47.5°	6479.8	1807.2	447.8	352.7	306.0	275.4	285.1	310.9	328.6	362.4	367.2
50°	6301.0	1636.5	388.2	288.3	249.7	238.4	252.9	270.6	293.1	322.1	325.4
52.5°	6180.2	1507.6	336.6	241.6	206.2	209.4	223.9	230.3	243.2	254.5	251.3
55°	6111.0	1436.7	294.8	209.4	175.6	185.2	188.5	180.4	174.0	162.7	157.8
57.5°	6102.9	1372.3	262.5	182.0	154.6	159.5	148.2	120.8	98.3	85.4	82.1
60°	6090.0	1293.4	236.8	153.0	136.9	130.5	106.3	66.0	46.7	43.5	43.5
62.5°	5949.9	1171.0	217.4	128.9	116.0	98.3	61.2	30.6	25.8	27.4	27.4
65°	5503.7	1000.2	198.1	104.7	91.8	70.9	30.6	17.7	9.7	11.3	11.3
67.5°	4679.1	797.3	177.2	80.5	69.3	45.1	17.7	8.1	0.0	0.0	0.0
70°	3132.8	494.5	149.8	56.4	45.1	27.4	12.9	1.6	0.0	0.0	0.0
72.5°	1201.6	267.4	120.8	33.8	29.0	19.3	8.1	0.0	0.0	0.0	0.0
75°	270.6	175.6	83.8	24.2	20.9	12.9	3.2	0.0	0.0	0.0	0.0
77.5°	103.1	127.2	48.3	16.1	14.5	8.1	0.0	0.0	0.0	0.0	0.0
80°	49.9	75.7	22.5	9.7	8.1	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	25.8	29.0	9.7	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.5	14.5	4.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.8	1.6	1.6	0.0	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)