

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: P324753

Luminaire Tested: **GAN-SA9A-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324753
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-SA9A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA 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: 31060 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

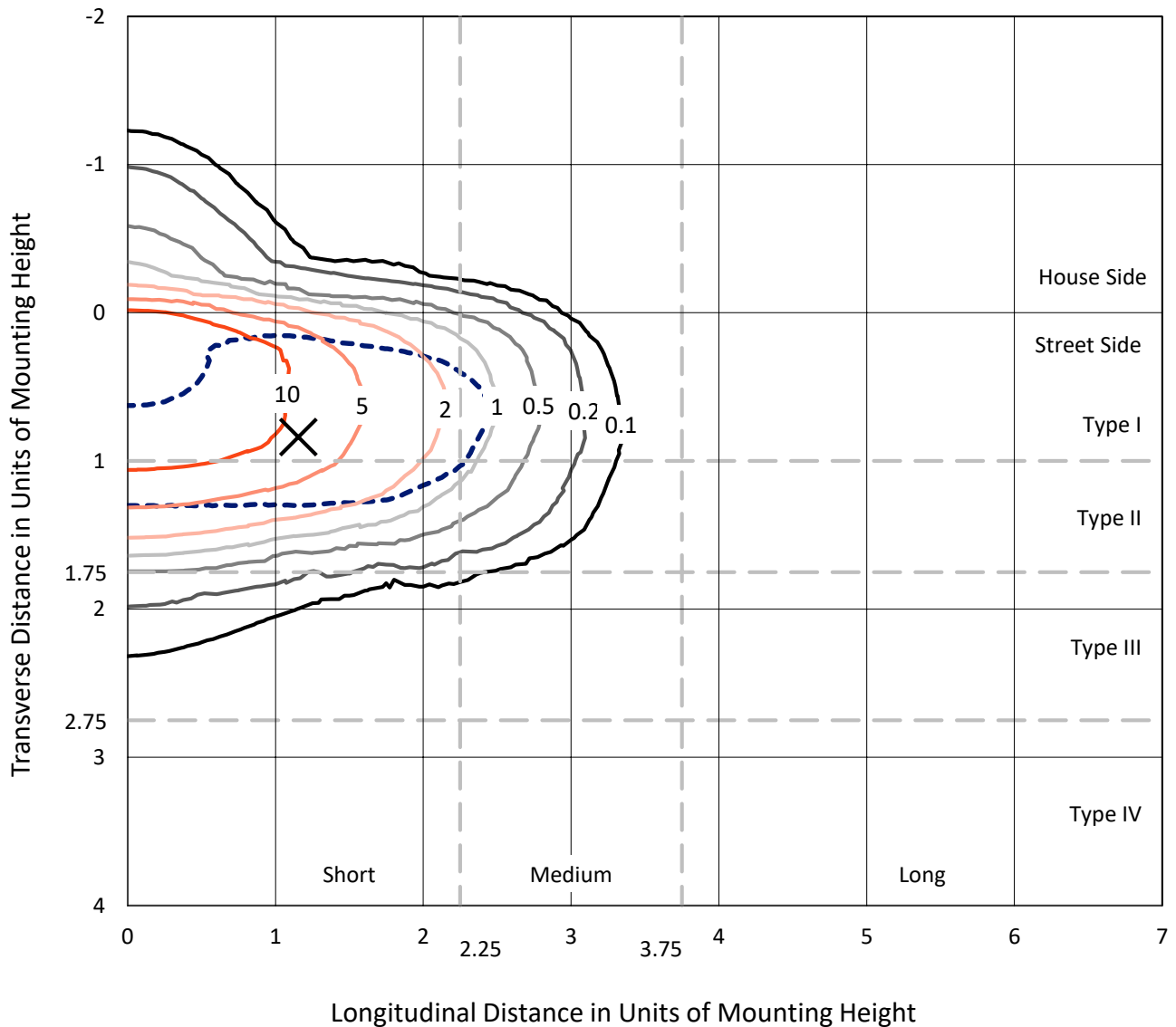
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

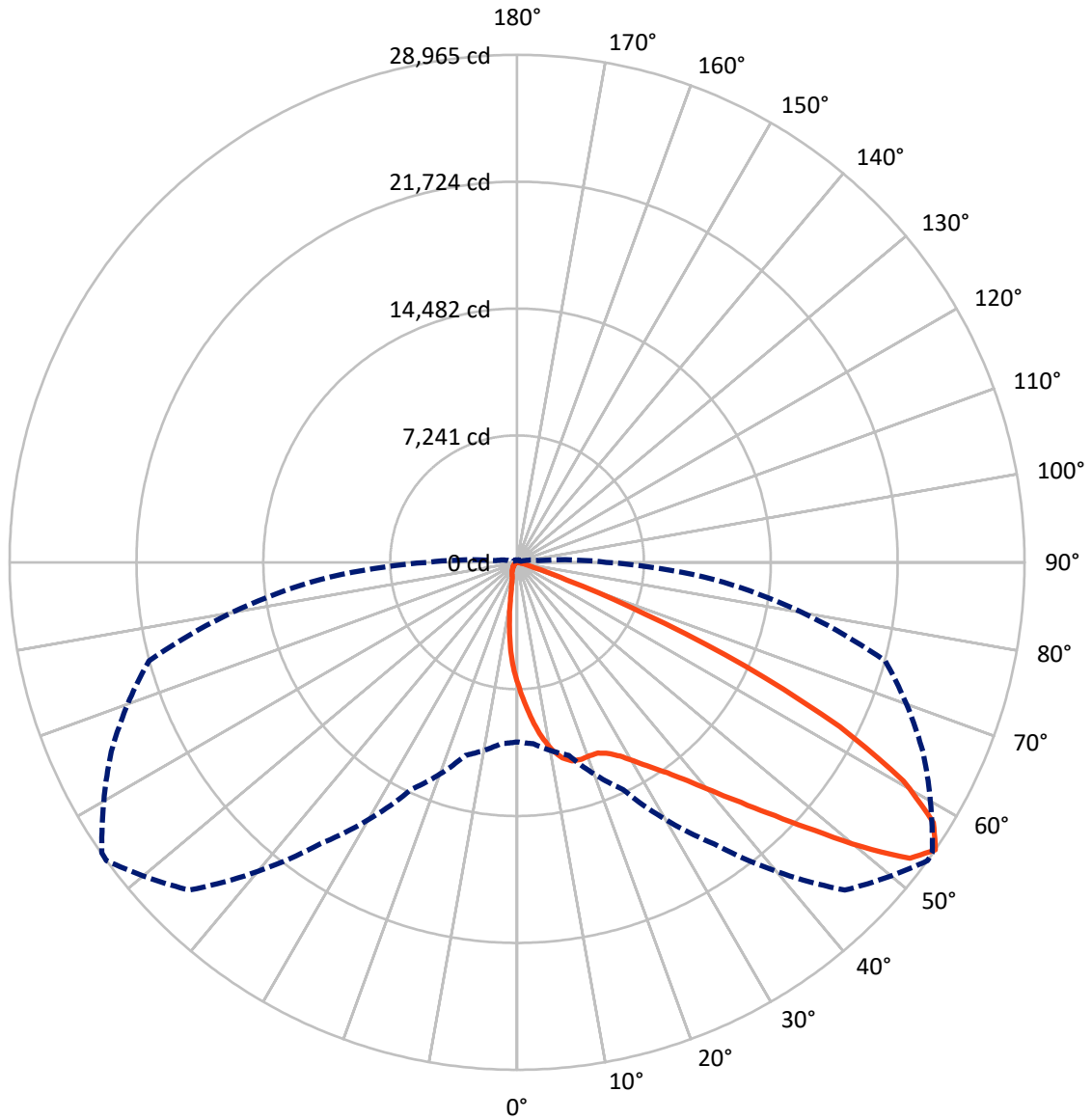
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.1 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	1549.7	0.0	1549.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	29510.3	0.0	29510.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	31060.0	0.0	31060.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	640.6	2.1
10°-20°	1756.8	5.7
20°-30°	2999.5	9.7
30°-40°	4813.7	15.5
40°-50°	7692.3	24.8
50°-60°	8242.5	26.5
60°-70°	4231.9	13.6
70°-80°	641.0	2.1
80°-90°	41.7	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°	31060.0	100.0
0°-180°	31060.0	100.0

Coefficient of Utilization

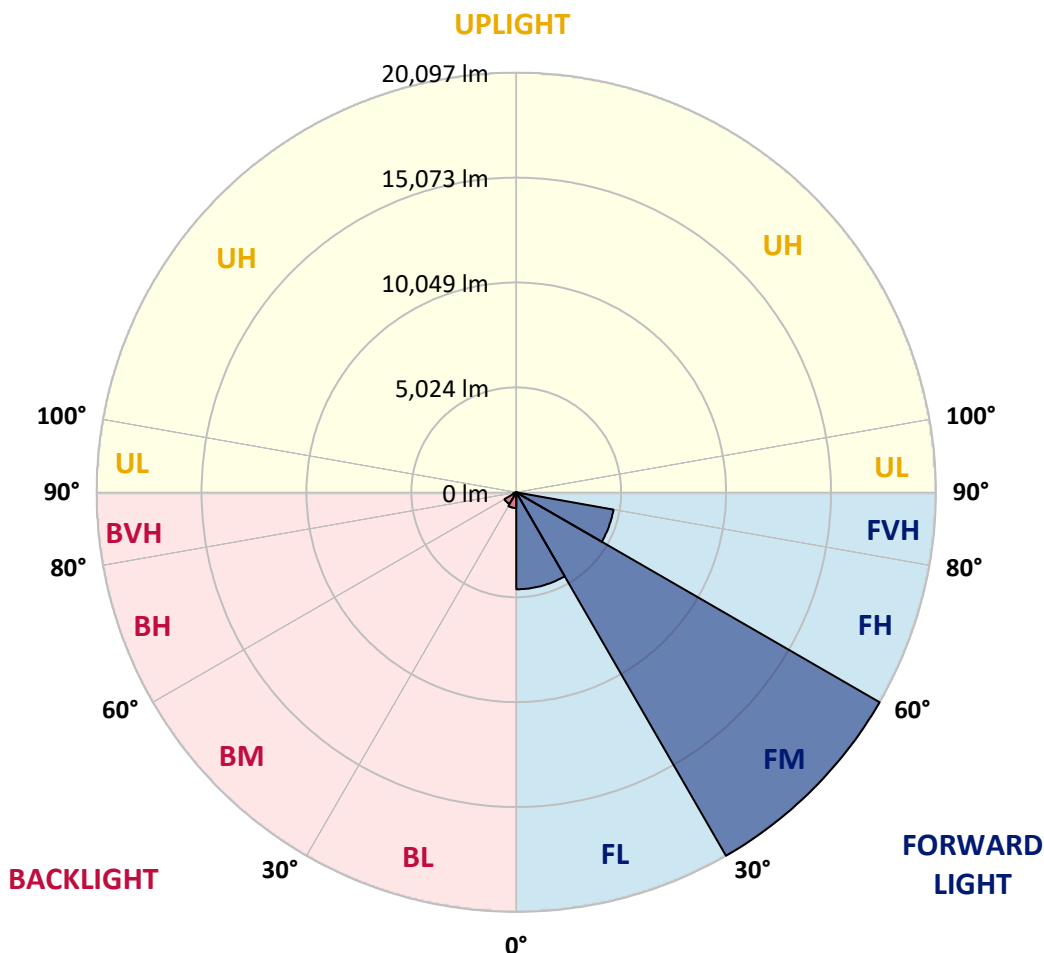


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4642.9	14.9			
FM (30°-60°)	20097.2	64.7			
FH (60°-80°)	4730.2	15.2			G2/5000
FVH (80°-90°)	40.1	0.1			G1/100
BL (0°-30°)	754.0	2.4	B2/1000		
BM (30°-60°)	651.2	2.1	B1/1000		
BH (60°-80°)	142.8	0.5	B1/500		G1/500
BVH (80°-90°)	1.7	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2
2.5°	8729.4	8599.3	8603.4	8544.3	8328.4	8159.4	7983.7	7942.1	7668.4	7381.4	7105.1
5°	10238.5	10143.2	10120.4	10006.4	9705.9	9388.0	9047.3	8968.2	8433.0	7845.5	7267.4
7.5°	11013.7	11015.1	10996.3	10954.7	10766.9	10458.4	10042.6	9959.5	9231.1	8349.8	7436.4
10°	10788.4	10839.4	10944.0	11082.2	11225.7	11186.8	10874.2	10799.1	10007.7	8883.7	7624.2
12.5°	10262.6	10269.3	10386.0	10612.7	11025.8	11449.7	11455.1	11429.6	10749.5	9441.7	7830.7
15°	10001.0	10026.5	10069.4	10215.7	10607.3	11286.0	11771.6	11807.8	11429.6	10034.6	8050.7
17.5°	10172.7	10208.9	10172.7	10190.2	10416.9	11027.2	11826.6	11919.2	12023.8	10620.7	8258.6
20°	10638.2	10671.7	10607.3	10536.2	10580.5	10952.0	11787.7	11912.4	12489.2	11141.2	8433.0
22.5°	11265.9	11279.3	11181.4	11064.7	11032.5	11206.9	11819.9	11948.7	12862.1	11612.0	8543.0
25°	11956.7	11968.8	11846.7	11712.6	11636.1	11707.2	12084.1	12180.7	13190.7	12061.3	8606.0
27.5°	12709.2	12719.9	12567.0	12402.0	12313.5	12316.2	12520.1	12623.4	13540.8	12573.7	8657.0
30°	13504.6	13499.3	13358.4	13129.0	13016.4	13013.7	13147.8	13252.4	14047.9	13231.0	8726.8
32.5°	14398.0	14387.2	14187.4	13903.0	13775.6	13794.3	13913.7	13974.1	14677.0	13931.2	8851.5
35°	15574.3	15543.5	15241.7	14888.9	14654.1	14647.4	14748.0	14796.3	15479.1	14778.9	9059.4
37.5°	17100.8	17072.6	16663.5	16151.1	15821.1	15697.7	15817.1	15878.8	16623.2	15866.7	9393.4
40°	18605.7	18577.6	18334.8	17865.3	17357.0	17060.5	17154.4	17220.1	18051.8	17186.6	9814.6
42.5°	19643.9	19668.1	19752.6	19791.5	19315.3	18692.9	18735.8	18804.3	19552.7	18597.7	10296.1
45°	19917.6	19969.9	20447.4	21385.0	21563.4	21077.8	20628.5	20666.0	21077.8	20008.8	10777.7
47.5°	19095.3	19191.9	20113.4	21857.1	23367.5	23710.9	22860.5	22810.8	22541.2	21150.3	11119.7
50°	17226.8	17315.4	18509.2	21088.6	23914.8	26224.6	25535.1	25388.9	23824.9	21833.0	11240.4
52.5°	14522.7	14630.0	15599.8	18668.8	22883.3	27345.9	28067.6	27945.5	24766.5	21886.7	11260.6
55°	10255.9	10386.0	11412.1	14308.1	19614.4	26453.9	28964.9	28928.7	25548.5	21744.5	11303.5
57.5°	5763.7	5857.6	6964.2	9172.1	14365.8	23041.6	28027.3	28267.4	26020.7	21497.7	11367.9
60°	2559.3	2584.8	3157.5	4565.9	8410.2	17609.1	25343.3	25748.4	25615.6	21167.7	11476.5
62.5°	1419.1	1397.7	1397.7	1898.0	3655.2	10901.1	20666.0	21335.4	23886.6	20777.4	11481.9
65°	1112.0	1091.9	1034.2	1042.2	1392.3	4838.2	14310.8	15500.5	20603.0	19633.2	11095.6
67.5°	943.0	925.5	867.8	845.0	865.2	1596.2	7862.9	9098.3	15633.3	16659.5	9610.7
70°	796.8	784.7	755.2	727.0	676.0	788.7	3008.6	3848.3	9633.5	11082.2	6560.5
72.5°	641.2	635.8	646.5	622.4	560.7	525.8	1028.8	1246.1	4327.2	4945.5	2702.8
75°	552.6	549.9	555.3	531.2	461.4	366.2	523.1	571.4	1220.6	1209.9	547.3
77.5°	359.5	363.5	460.1	449.3	397.0	244.1	271.0	292.4	370.2	277.7	166.3
80°	229.4	226.7	233.4	372.9	356.8	186.4	135.5	142.2	178.4	136.8	80.5
82.5°	139.5	136.8	152.9	174.4	179.7	130.1	83.2	84.5	111.3	88.5	42.9
85°	12.1	16.1	92.6	85.8	61.7	40.2	40.2	42.9	59.0	52.3	24.1
87.5°	0.0	0.0	16.1	24.1	13.4	14.8	14.8	16.1	22.8	22.8	12.1
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°	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2	6956.2
2.5°	6961.6	6822.1	6540.4	6269.4	6040.1	5818.7	5566.6	5317.1	5200.4	5153.4	5105.1
5°	6973.6	6686.6	6105.8	5521.0	4914.7	4368.7	3903.3	3425.8	3187.0	3082.4	3034.1
7.5°	6989.7	6552.4	5613.5	4631.6	3655.2	2914.7	2268.2	1852.4	1672.7	1644.5	1574.7
10°	6992.4	6390.1	5042.1	3649.8	2450.6	1757.2	1352.1	1137.5	1058.3	1044.9	1022.1
12.5°	6997.8	6198.3	4407.6	2702.8	1633.8	1175.0	977.8	906.7	885.3	883.9	883.9
15°	7013.9	5997.1	3749.0	1947.6	1173.7	930.9	858.5	830.3	822.2	826.3	824.9
17.5°	7013.9	5759.7	3102.5	1451.3	948.3	837.0	796.8	778.0	775.3	779.3	780.7
20°	6962.9	5471.3	2509.6	1129.4	841.0	776.6	740.4	723.0	716.3	719.0	720.3
22.5°	6840.8	5117.2	2026.8	934.9	769.9	721.6	682.7	655.9	645.2	646.5	646.5
25°	6650.4	4697.4	1585.5	808.8	712.3	662.6	617.0	586.2	579.5	578.1	580.8
27.5°	6406.2	4233.3	1262.2	712.3	643.8	596.9	551.3	525.8	520.4	521.8	523.1
30°	6166.1	3751.7	995.3	630.4	567.4	523.1	488.2	476.2	476.2	480.2	481.5
32.5°	5946.2	3289.0	787.4	559.3	499.0	458.7	438.6	437.3	444.0	446.7	448.0
35°	5757.0	2861.1	651.9	504.3	445.3	410.5	403.7	409.1	417.2	422.5	423.9
37.5°	5622.9	2478.8	570.1	458.7	403.7	375.6	374.2	385.0	395.7	407.8	410.5
40°	5566.6	2155.5	513.7	418.5	370.2	348.7	344.7	359.5	379.6	397.0	399.7
42.5°	5519.6	1891.3	465.4	379.6	343.4	312.5	311.2	330.0	354.1	371.6	375.6
45°	5479.4	1679.4	421.2	338.0	308.5	268.3	272.3	296.4	315.2	334.0	338.0
47.5°	5396.2	1505.0	372.9	293.8	254.9	229.4	237.4	258.9	273.6	301.8	305.8
50°	5247.3	1362.8	323.3	240.1	207.9	198.5	210.6	225.3	244.1	268.3	271.0
52.5°	5146.7	1255.5	280.3	201.2	171.7	174.4	186.4	191.8	202.5	211.9	209.2
55°	5089.0	1196.5	245.5	174.4	146.2	154.3	156.9	150.2	144.9	135.5	131.5
57.5°	5082.3	1142.8	218.6	151.6	128.8	132.8	123.4	100.6	81.8	71.1	68.4
60°	5071.6	1077.1	197.2	127.4	114.0	108.6	88.5	55.0	38.9	36.2	36.2
62.5°	4954.9	975.2	181.1	107.3	96.6	81.8	51.0	25.5	21.5	22.8	22.8
65°	4583.4	833.0	165.0	87.2	76.5	59.0	25.5	14.8	8.0	9.4	9.4
67.5°	3896.6	664.0	147.5	67.1	57.7	37.6	14.8	6.7	0.0	0.0	0.0
70°	2608.9	411.8	124.7	46.9	37.6	22.8	10.7	1.3	0.0	0.0	0.0
72.5°	1000.6	222.7	100.6	28.2	24.1	16.1	6.7	0.0	0.0	0.0	0.0
75°	225.3	146.2	69.7	20.1	17.4	10.7	2.7	0.0	0.0	0.0	0.0
77.5°	85.8	106.0	40.2	13.4	12.1	6.7	0.0	0.0	0.0	0.0	0.0
80°	41.6	63.0	18.8	8.0	6.7	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	21.5	24.1	8.0	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.1	12.1	4.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	4.0	1.3	1.3	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)