

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: P324752

Luminaire Tested: **GAN-SA8A-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324752
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-SA8A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 27843 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

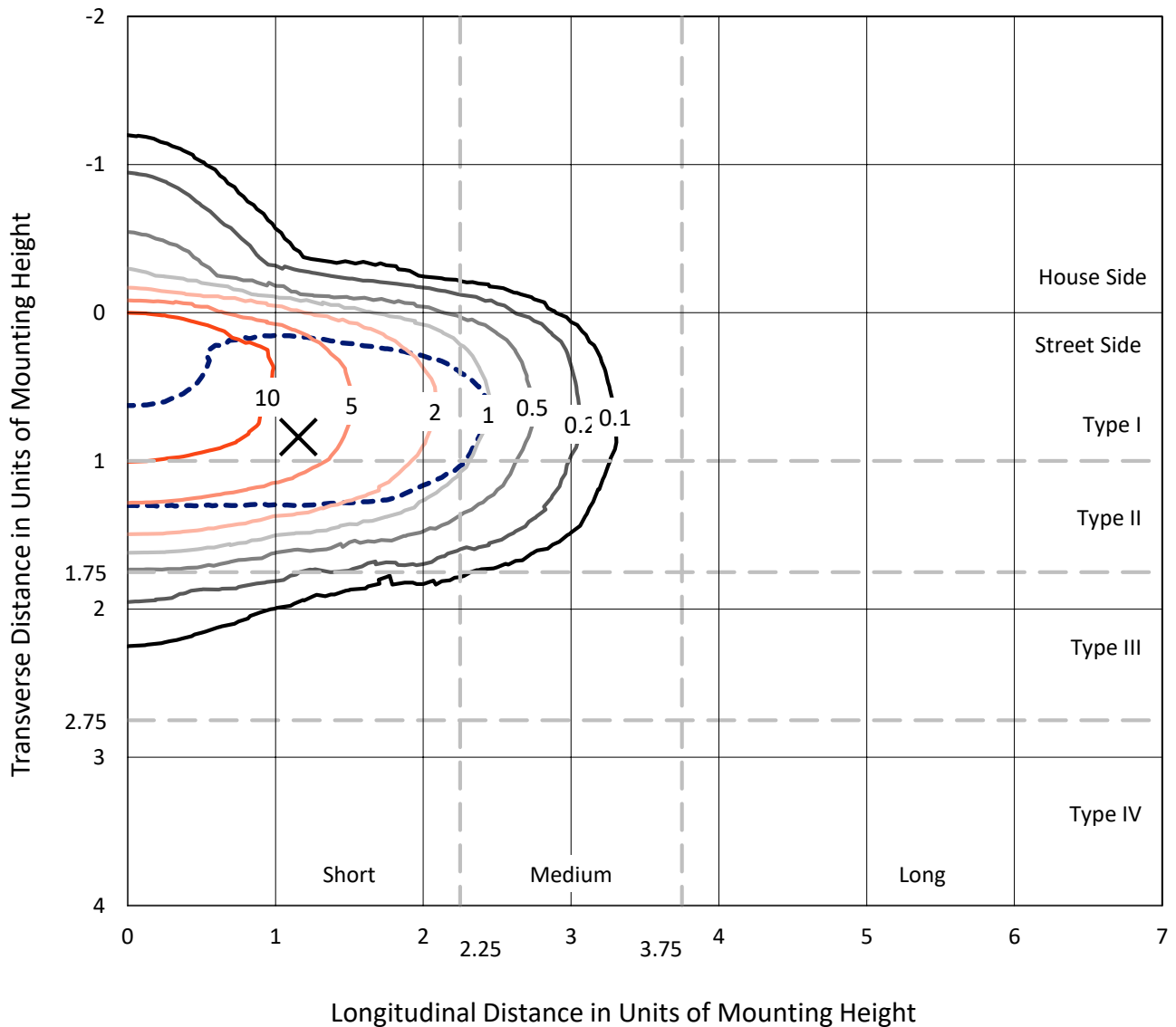
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

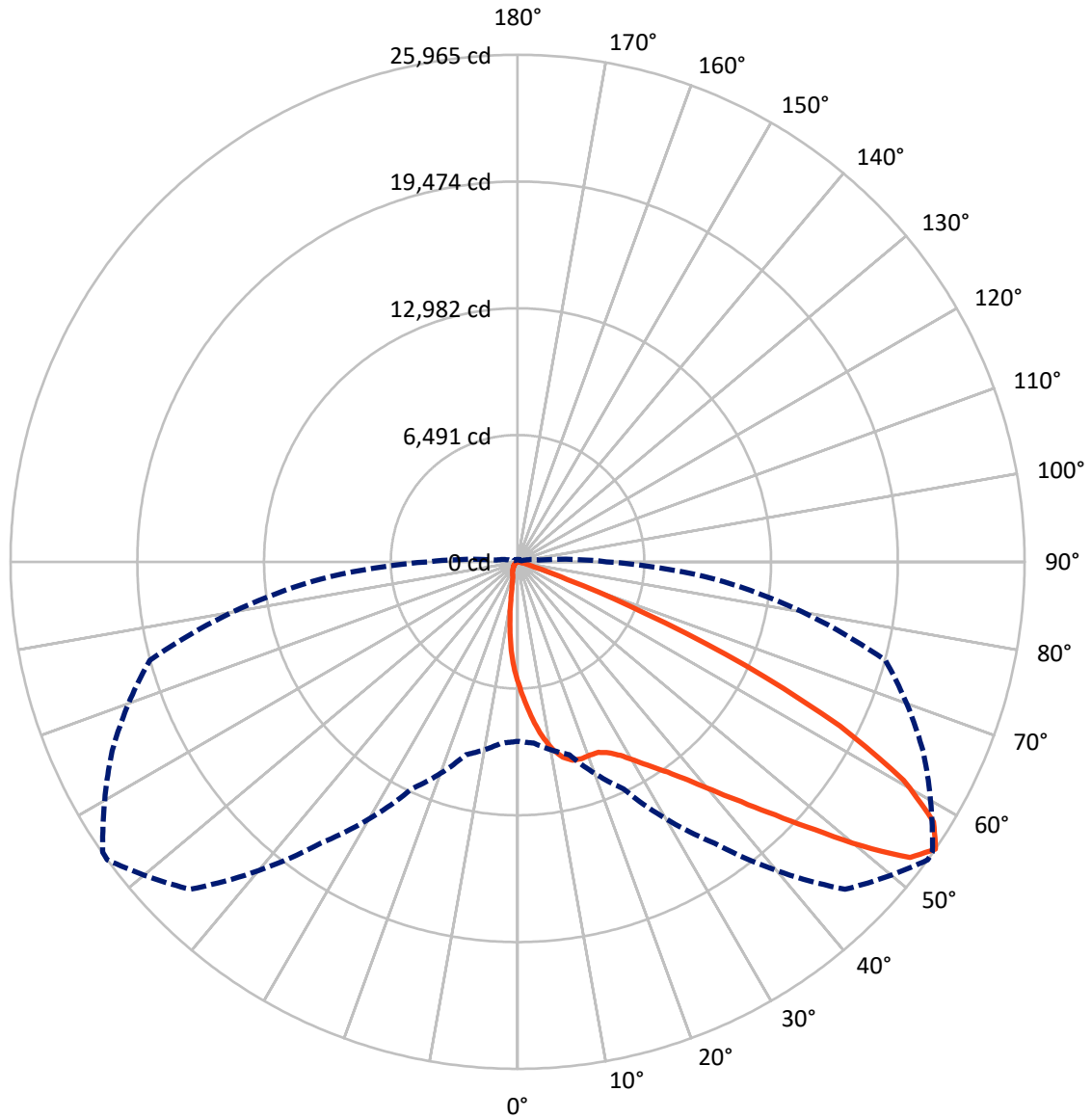
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.3 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	1389.2	0.0	1389.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	26453.8	0.0	26453.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	27843.0	0.0	27843.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.2	2.1
10°-20°	1574.9	5.7
20°-30°	2688.8	9.7
30°-40°	4315.1	15.5
40°-50°	6895.6	24.8
50°-60°	7388.8	26.5
60°-70°	3793.6	13.6
70°-80°	574.6	2.1
80°-90°	37.4	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°	27843.0	100.0
0°-180°	27843.0	100.0

Coefficient of Utilization



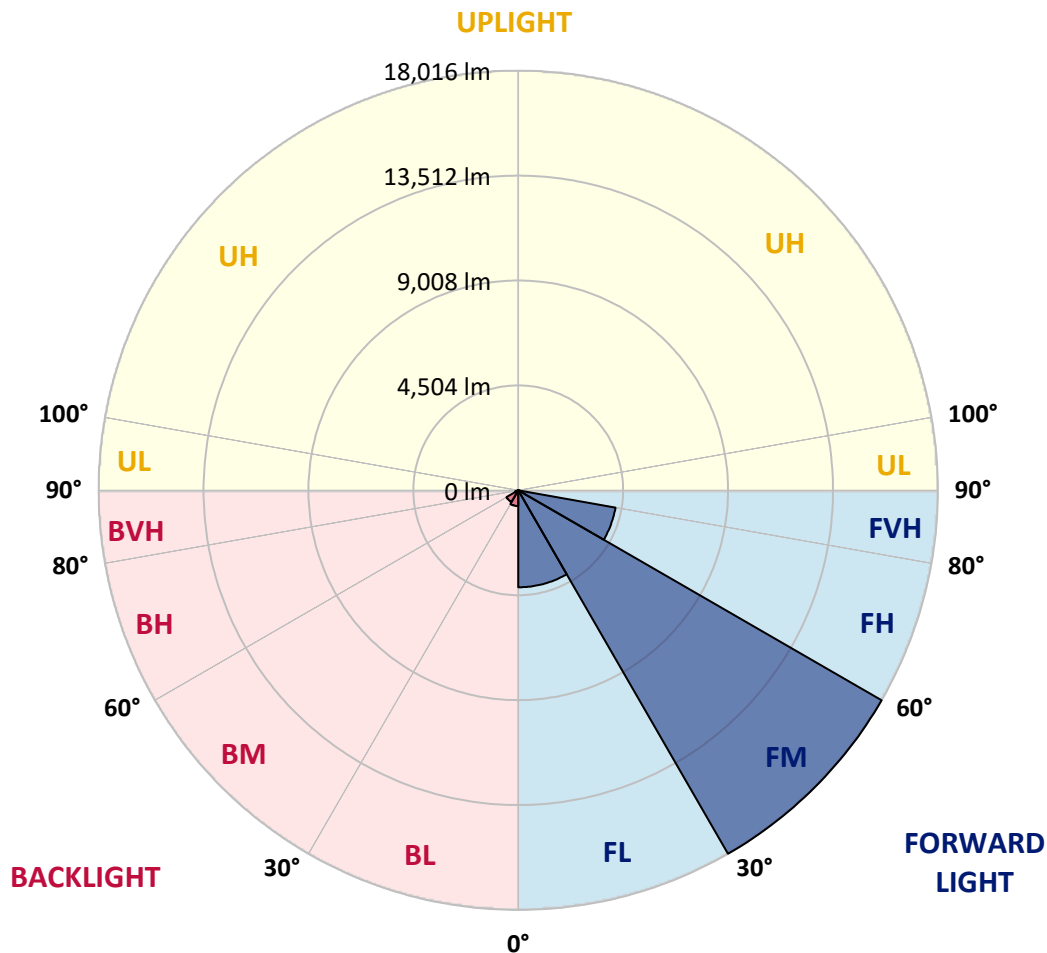
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4162.0	14.9			
FM (30°-60°)	18015.7	64.7			
FH (60°-80°)	4240.2	15.2			G2/5000
FVH (80°-90°)	35.9	0.1			G1/100
BL (0°-30°)	675.9	2.4	B2/1000		
BM (30°-60°)	583.8	2.1	B1/1000		
BH (60°-80°)	128.0	0.5	B1/500		G1/500
BVH (80°-90°)	1.5	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°	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7
2.5°	7825.3	7708.7	7712.3	7659.4	7465.8	7314.3	7156.8	7119.5	6874.2	6616.9	6369.2
5°	9178.0	9092.6	9072.2	8970.0	8700.7	8415.7	8110.3	8039.3	7559.6	7032.9	6514.7
7.5°	9873.0	9874.2	9857.4	9820.1	9651.8	9375.2	9002.5	8927.9	8275.0	7485.0	6666.2
10°	9671.0	9716.7	9810.5	9934.3	10063.0	10028.1	9748.0	9680.6	8971.2	7963.6	6834.5
12.5°	9199.7	9205.7	9310.3	9513.5	9883.8	10263.8	10268.6	10245.8	9636.1	8463.8	7019.7
15°	8965.2	8988.0	9026.5	9157.6	9508.7	10117.1	10552.4	10584.8	10245.8	8995.3	7216.9
17.5°	9119.1	9151.6	9119.1	9134.7	9337.9	9885.0	10601.7	10684.6	10778.4	9520.7	7403.3
20°	9536.3	9566.4	9508.7	9445.0	9484.6	9817.7	10566.8	10678.6	11195.7	9987.2	7559.6
22.5°	10099.1	10111.1	10023.3	9918.7	9889.8	10046.2	10595.7	10711.1	11529.9	10409.3	7658.2
25°	10718.3	10729.1	10619.7	10499.5	10430.9	10494.7	10832.5	10919.1	11824.5	10812.1	7714.7
27.5°	11392.9	11402.5	11265.4	11117.5	11038.2	11040.6	11223.3	11315.9	12138.4	11271.4	7760.4
30°	12105.9	12101.1	11974.8	11769.2	11668.2	11665.8	11786.1	11879.8	12592.9	11860.6	7822.9
32.5°	12906.7	12897.1	12717.9	12463.0	12348.8	12365.6	12472.6	12526.7	13156.8	12488.3	7934.7
35°	13961.2	13933.6	13663.0	13346.8	13136.4	13130.4	13220.5	13263.8	13875.8	13248.2	8121.1
37.5°	15329.6	15304.3	14937.6	14478.3	14182.5	14071.8	14178.9	14234.2	14901.5	14223.3	8420.5
40°	16678.7	16653.4	16435.8	16014.9	15559.2	15293.5	15377.7	15436.6	16182.1	15406.5	8798.1
42.5°	17609.3	17631.0	17706.7	17741.6	17314.7	16756.8	16795.3	16856.6	17527.6	16671.5	9229.7
45°	17854.6	17901.5	18329.6	19170.1	19330.0	18894.7	18491.9	18525.6	18894.7	17936.4	9661.4
47.5°	17117.6	17204.1	18030.2	19593.3	20947.2	21255.1	20492.7	20448.2	20206.6	18959.7	9968.0
50°	15442.6	15522.0	16592.1	18904.3	21437.8	23508.4	22890.3	22759.3	21357.3	19571.7	10076.2
52.5°	13018.5	13114.7	13984.1	16735.2	20513.2	24513.6	25160.5	25051.1	22201.4	19619.8	10094.3
55°	9193.7	9310.3	10230.1	12826.1	17582.9	23714.0	25964.9	25932.4	22902.4	19492.3	10132.7
57.5°	5166.8	5250.9	6242.9	8222.1	12877.8	20655.1	25124.4	25339.7	23325.6	19271.1	10190.5
60°	2294.2	2317.1	2830.5	4093.0	7539.1	15785.3	22718.4	23081.5	22962.5	18975.3	10287.8
62.5°	1272.2	1252.9	1252.9	1701.4	3276.6	9772.0	18525.6	19125.6	21412.6	18625.4	10292.7
65°	996.8	978.8	927.1	934.3	1248.1	4337.1	12828.5	13895.1	18469.1	17599.7	9946.4
67.5°	845.3	829.7	778.0	757.5	775.6	1430.9	7048.5	8156.0	14014.1	14934.0	8615.3
70°	714.2	703.4	677.0	651.7	606.0	707.0	2697.0	3449.7	8635.7	9934.3	5881.0
72.5°	574.8	569.9	579.6	557.9	502.6	471.3	922.3	1117.0	3879.0	4433.3	2422.9
75°	495.4	493.0	497.8	476.2	413.6	328.3	468.9	512.2	1094.2	1084.6	490.6
77.5°	322.2	325.9	412.4	402.8	355.9	218.8	242.9	262.1	331.9	248.9	149.1
80°	205.6	203.2	209.2	334.3	319.8	167.1	121.4	127.5	159.9	122.6	72.1
82.5°	125.1	122.6	137.1	156.3	161.1	116.6	74.5	75.8	99.8	79.4	38.5
85°	10.8	14.4	83.0	77.0	55.3	36.1	36.1	38.5	52.9	46.9	21.6
87.5°	0.0	0.0	14.4	21.6	12.0	13.2	13.2	14.4	20.4	20.4	10.8
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°	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7	6235.7
2.5°	6240.5	6115.5	5863.0	5620.1	5414.5	5216.1	4990.0	4766.4	4661.8	4619.7	4576.4
5°	6251.3	5994.0	5473.4	4949.1	4405.6	3916.3	3499.0	3071.0	2856.9	2763.1	2719.9
7.5°	6265.8	5873.8	5032.1	4151.9	3276.6	2612.8	2033.3	1660.5	1499.4	1474.2	1411.6
10°	6268.2	5728.3	4519.9	3271.8	2196.8	1575.2	1212.0	1019.6	948.7	936.7	916.2
12.5°	6273.0	5556.4	3951.1	2422.9	1464.5	1053.3	876.6	812.8	793.6	792.4	792.4
15°	6287.4	5376.0	3360.7	1745.9	1052.1	834.5	769.5	744.3	737.1	740.7	739.5
17.5°	6287.4	5163.2	2781.2	1301.0	850.1	750.3	714.2	697.4	695.0	698.6	699.8
20°	6241.7	4904.6	2249.7	1012.4	753.9	696.2	663.7	648.1	642.1	644.5	645.7
22.5°	6132.3	4587.2	1816.8	838.1	690.2	646.9	612.0	588.0	578.4	579.6	579.6
25°	5961.6	4210.9	1421.3	725.1	638.5	594.0	553.1	525.5	519.4	518.2	520.6
27.5°	5742.7	3794.8	1131.5	638.5	577.2	535.1	494.2	471.3	466.5	467.7	468.9
30°	5527.5	3363.1	892.2	565.1	508.6	468.9	437.7	426.9	426.9	430.5	431.7
32.5°	5330.3	2948.3	705.8	501.4	447.3	411.2	393.2	392.0	398.0	400.4	401.6
35°	5160.8	2564.7	584.4	452.1	399.2	367.9	361.9	366.7	374.0	378.8	380.0
37.5°	5040.5	2222.1	511.0	411.2	361.9	336.7	335.5	345.1	354.7	365.5	367.9
40°	4990.0	1932.3	460.5	375.2	331.9	312.6	309.0	322.2	340.3	355.9	358.3
42.5°	4947.9	1695.4	417.2	340.3	307.8	280.2	279.0	295.8	317.4	333.1	336.7
45°	4911.9	1505.4	377.6	303.0	276.6	240.5	244.1	265.7	282.6	299.4	303.0
47.5°	4837.3	1349.1	334.3	263.3	228.5	205.6	212.8	232.1	245.3	270.5	274.2
50°	4703.8	1221.7	289.8	215.2	186.4	178.0	188.8	202.0	218.8	240.5	242.9
52.5°	4613.7	1125.5	251.3	180.4	153.9	156.3	167.1	171.9	181.6	190.0	187.6
55°	4562.0	1072.6	220.0	156.3	131.1	138.3	140.7	134.7	129.9	121.4	117.8
57.5°	4555.9	1024.5	196.0	135.9	115.4	119.0	110.6	90.2	73.3	63.7	61.3
60°	4546.3	965.5	176.8	114.2	102.2	97.4	79.4	49.3	34.9	32.5	32.5
62.5°	4441.7	874.2	162.3	96.2	86.6	73.3	45.7	22.8	19.2	20.4	20.4
65°	4108.6	746.7	147.9	78.2	68.5	52.9	22.8	13.2	7.2	8.4	8.4
67.5°	3493.0	595.2	132.3	60.1	51.7	33.7	13.2	6.0	0.0	0.0	0.0
70°	2338.7	369.1	111.8	42.1	33.7	20.4	9.6	1.2	0.0	0.0	0.0
72.5°	897.0	199.6	90.2	25.3	21.6	14.4	6.0	0.0	0.0	0.0	0.0
75°	202.0	131.1	62.5	18.0	15.6	9.6	2.4	0.0	0.0	0.0	0.0
77.5°	77.0	95.0	36.1	12.0	10.8	6.0	0.0	0.0	0.0	0.0	0.0
80°	37.3	56.5	16.8	7.2	6.0	2.4	0.0	0.0	0.0	0.0	0.0
82.5°	19.2	21.6	7.2	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.8	10.8	3.6	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	3.6	1.2	1.2	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)