

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: P324766

Luminaire Tested: **GAN-SA2C-730-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324766  
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-SA2C-730-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 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: 10788 lumens  
Efficiency: N/A  
Efficacy: 95.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

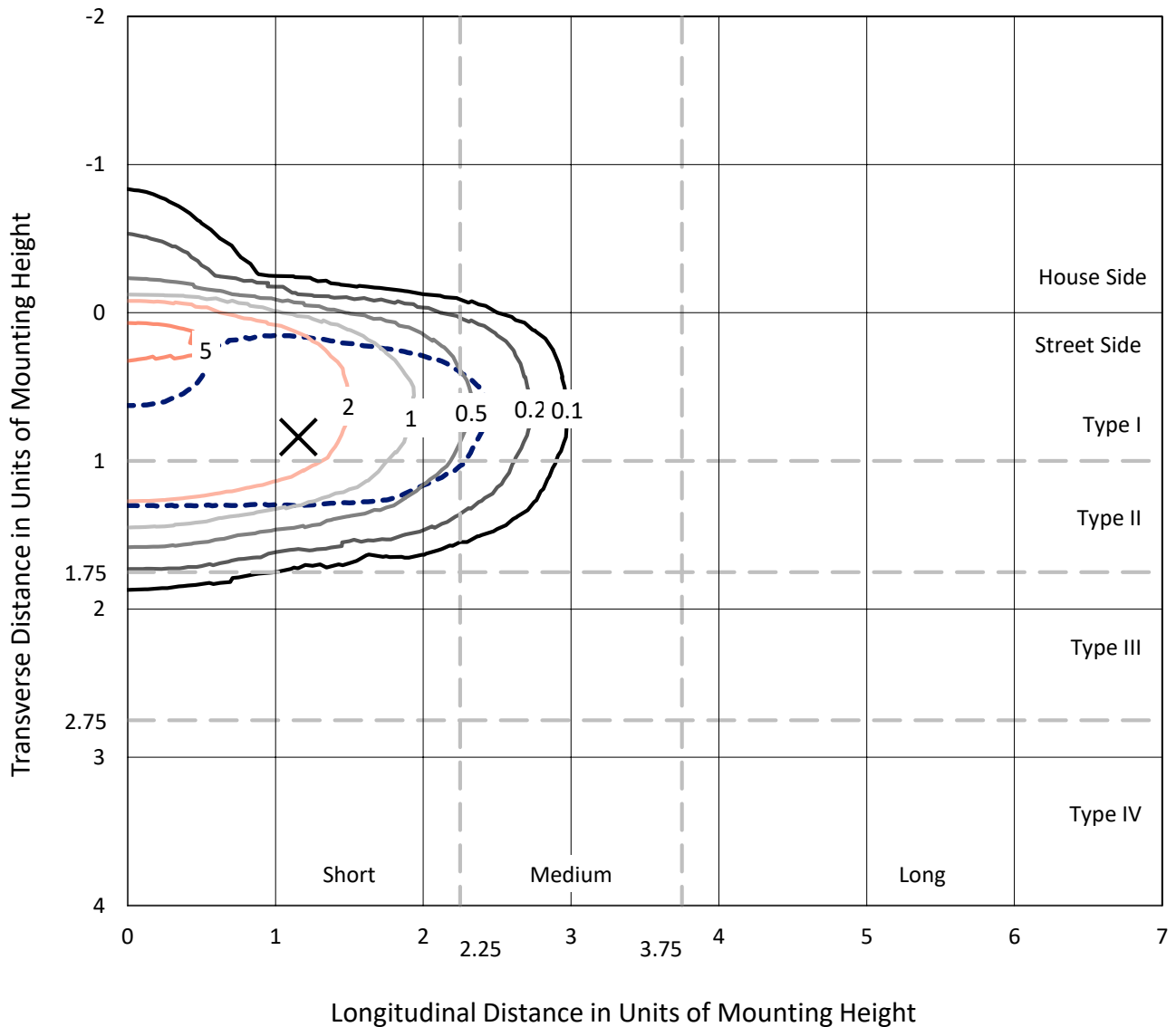
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

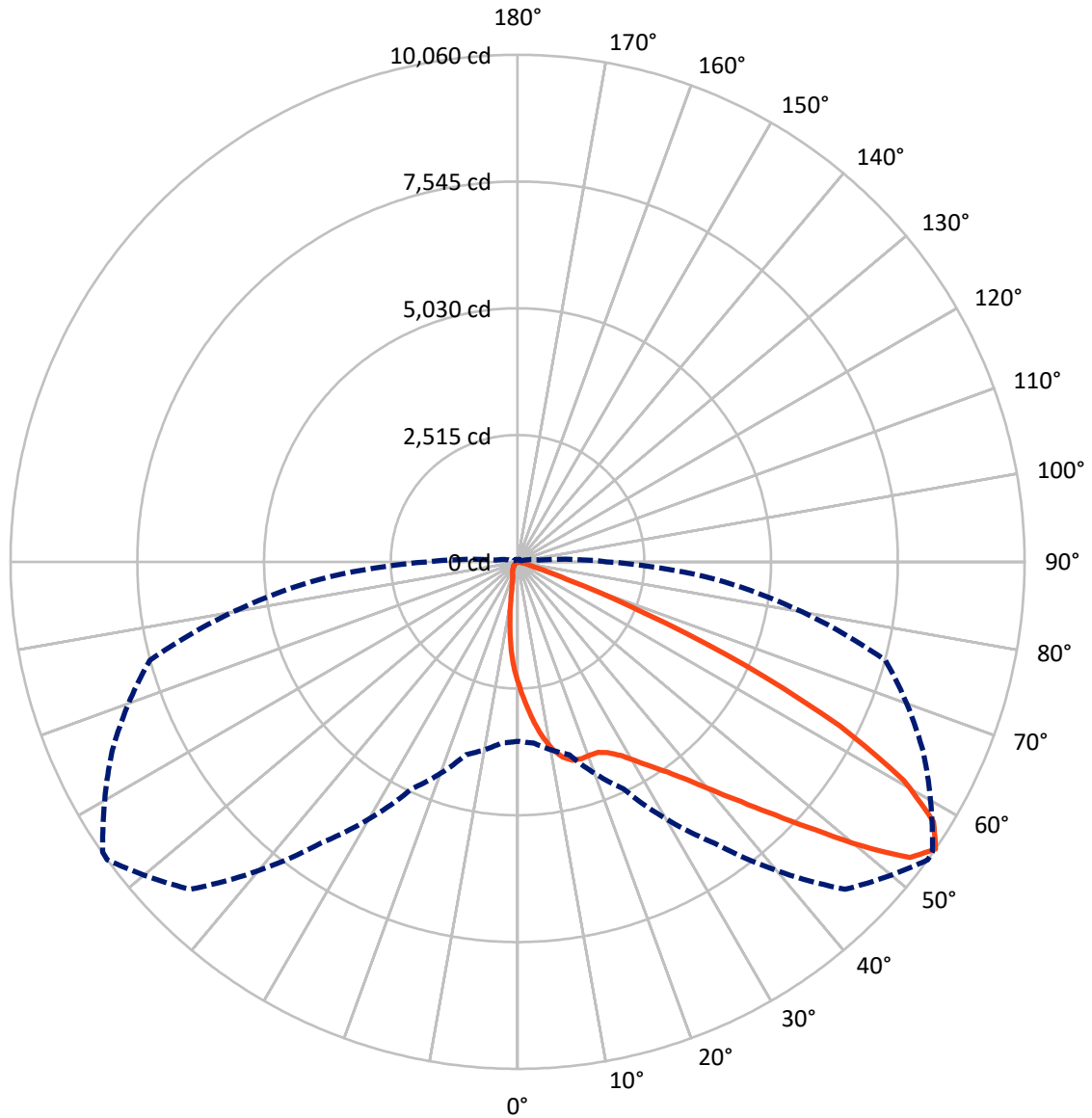
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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
<b>House Side</b>	Lumens	538.2	0.0	538.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	10249.8	0.0	10249.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	10788.0	0.0	10788.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.5	2.1
10°-20°	610.2	5.7
20°-30°	1041.8	9.7
30°-40°	1671.9	15.5
40°-50°	2671.7	24.8
50°-60°	2862.8	26.5
60°-70°	1469.9	13.6
70°-80°	222.6	2.1
80°-90°	14.5	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°	10788.0	100.0
0°-180°	10788.0	100.0

**Coefficient of Utilization**

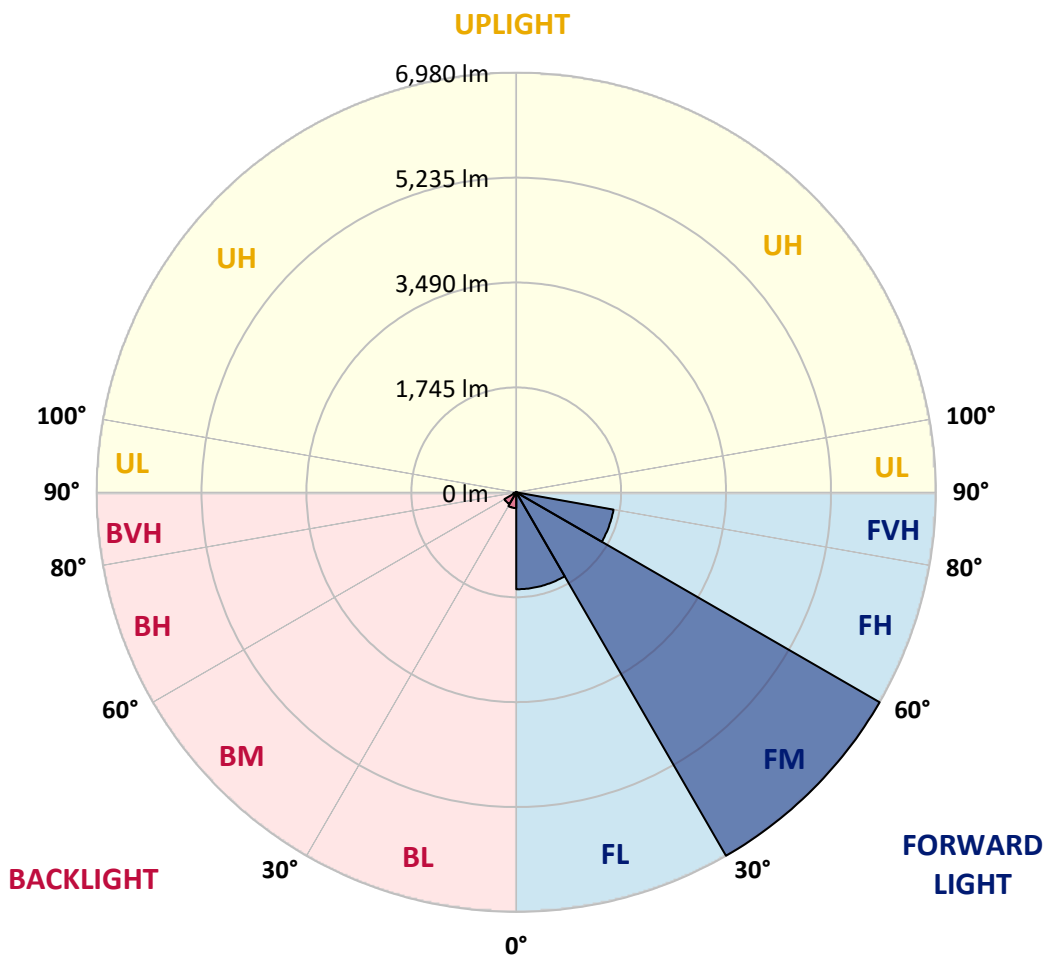


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.6	14.9			
FM (30°-60°)	6980.3	64.7			
FH (60°-80°)	1642.9	15.2			G1/1800
FVH (80°-90°)	13.9	0.1			G1/100
BL (0°-30°)	261.9	2.4	B1/500		
BM (30°-60°)	226.2	2.1	B1/1000		
BH (60°-80°)	49.6	0.5	B0/110		G0/110
BVH (80°-90°)	0.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1
2.5°	3032.0	2986.8	2988.2	2967.7	2892.7	2834.0	2772.9	2758.5	2663.5	2563.8	2467.8
5°	3556.1	3523.0	3515.1	3475.5	3371.1	3260.7	3142.4	3114.9	2929.0	2725.0	2524.2
7.5°	3825.4	3825.8	3819.3	3804.9	3739.7	3632.5	3488.1	3459.2	3206.2	2900.1	2582.9
10°	3747.1	3764.8	3801.2	3849.1	3899.0	3885.5	3776.9	3750.8	3476.0	3085.6	2648.1
12.5°	3564.5	3566.8	3607.3	3686.1	3829.6	3976.8	3978.7	3969.8	3733.6	3279.4	2719.8
15°	3473.6	3482.5	3497.4	3548.2	3684.2	3920.0	4088.6	4101.2	3969.8	3485.3	2796.2
17.5°	3533.3	3545.8	3533.3	3539.3	3618.1	3830.0	4107.7	4139.9	4176.2	3688.9	2868.5
20°	3694.9	3706.6	3684.2	3659.5	3674.9	3804.0	4094.2	4137.5	4337.9	3869.6	2929.0
22.5°	3913.0	3917.6	3883.6	3843.1	3831.9	3892.5	4105.4	4150.1	4467.4	4033.2	2967.2
25°	4152.9	4157.1	4114.7	4068.1	4041.6	4066.2	4197.2	4230.7	4581.5	4189.2	2989.1
27.5°	4414.3	4418.0	4364.9	4307.6	4276.8	4277.8	4348.6	4384.4	4703.1	4367.2	3006.8
30°	4690.5	4688.7	4639.7	4560.1	4520.9	4520.0	4566.6	4602.9	4879.2	4595.5	3031.0
32.5°	5000.8	4997.1	4927.7	4828.9	4784.6	4791.2	4832.6	4853.6	5097.7	4838.7	3074.4
35°	5409.4	5398.7	5293.8	5171.3	5089.8	5087.5	5122.4	5139.2	5376.3	5133.1	3146.6
37.5°	5939.6	5929.8	5787.7	5609.7	5495.1	5452.3	5493.7	5515.1	5773.7	5511.0	3262.6
40°	6462.3	6452.5	6368.2	6205.1	6028.6	5925.6	5958.2	5981.0	6269.9	5969.4	3408.9
42.5°	6822.9	6831.3	6860.6	6874.1	6708.7	6492.6	6507.5	6531.2	6791.2	6459.5	3576.1
45°	6917.9	6936.1	7101.9	7427.6	7489.6	7320.9	7164.8	7177.9	7320.9	6949.6	3743.4
47.5°	6632.3	6665.9	6985.9	7591.6	8116.2	8235.4	7940.1	7922.8	7829.2	7346.1	3862.2
50°	5983.4	6014.1	6428.7	7324.6	8306.3	9108.5	8869.1	8818.3	8275.0	7583.2	3904.1
52.5°	5044.1	5081.4	5418.2	6484.2	7948.0	9498.0	9748.6	9706.2	8602.1	7601.8	3911.1
55°	3562.2	3607.3	3963.7	4969.6	6812.6	9188.2	10060.3	10047.7	8873.7	7552.5	3926.0
57.5°	2001.9	2034.5	2418.9	3185.7	4989.6	8003.0	9734.7	9818.1	9037.7	7466.7	3948.4
60°	888.9	897.8	1096.7	1585.9	2921.1	6116.1	8802.4	8943.1	8897.0	7352.1	3986.1
62.5°	492.9	485.5	485.5	659.2	1269.5	3786.2	7177.9	7410.4	8296.5	7216.6	3988.0
65°	386.2	379.2	359.2	362.0	483.6	1680.4	4970.5	5383.8	7156.0	6819.2	3853.8
67.5°	327.5	321.5	301.4	293.5	300.5	554.4	2731.0	3160.1	5429.9	5786.3	3338.1
70°	276.7	272.5	262.3	252.5	234.8	273.9	1045.0	1336.6	3346.0	3849.1	2278.6
72.5°	222.7	220.8	224.6	216.2	194.7	182.6	357.3	432.8	1502.9	1717.7	938.8
75°	191.9	191.0	192.9	184.5	160.3	127.2	181.7	198.5	424.0	420.2	190.1
77.5°	124.9	126.3	159.8	156.1	137.9	84.8	94.1	101.6	128.6	96.4	57.8
80°	79.7	78.7	81.1	129.5	123.9	64.8	47.1	49.4	62.0	47.5	28.0
82.5°	48.5	47.5	53.1	60.6	62.4	45.2	28.9	29.4	38.7	30.7	14.9
85°	4.2	5.6	32.1	29.8	21.4	14.0	14.0	14.9	20.5	18.2	8.4
87.5°	0.0	0.0	5.6	8.4	4.7	5.1	5.1	5.6	7.9	7.9	4.2
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°	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1
2.5°	2417.9	2369.5	2271.7	2177.5	2097.9	2021.0	1933.4	1846.8	1806.2	1789.9	1773.2
5°	2422.1	2322.4	2120.7	1917.6	1707.0	1517.4	1355.7	1189.9	1106.9	1070.6	1053.8
7.5°	2427.7	2275.8	1949.7	1608.7	1269.5	1012.4	787.8	643.4	581.0	571.2	546.9
10°	2428.7	2219.5	1751.3	1267.7	851.2	610.3	469.6	395.1	367.6	362.9	355.0
12.5°	2430.5	2152.9	1530.9	938.8	567.4	408.1	339.6	314.9	307.5	307.0	307.0
15°	2436.1	2083.0	1302.1	676.5	407.6	323.3	298.2	288.4	285.6	287.0	286.5
17.5°	2436.1	2000.5	1077.6	504.1	329.4	290.7	276.7	270.2	269.3	270.7	271.1
20°	2418.4	1900.3	871.7	392.3	292.1	269.7	257.2	251.1	248.8	249.7	250.2
22.5°	2376.0	1777.4	704.0	324.7	267.4	250.6	237.1	227.8	224.1	224.6	224.6
25°	2309.9	1631.5	550.7	280.9	247.4	230.1	214.3	203.6	201.3	200.8	201.7
27.5°	2225.1	1470.3	438.4	247.4	223.6	207.3	191.5	182.6	180.8	181.2	181.7
30°	2141.7	1303.1	345.7	219.0	197.1	181.7	169.6	165.4	165.4	166.8	167.3
32.5°	2065.3	1142.3	273.5	194.3	173.3	159.3	152.3	151.9	154.2	155.1	155.6
35°	1999.6	993.7	226.4	175.2	154.7	142.6	140.2	142.1	144.9	146.8	147.2
37.5°	1953.0	861.0	198.0	159.3	140.2	130.4	130.0	133.7	137.4	141.6	142.6
40°	1933.4	748.7	178.4	145.4	128.6	121.1	119.7	124.9	131.8	137.9	138.8
42.5°	1917.1	656.9	161.7	131.8	119.3	108.6	108.1	114.6	123.0	129.1	130.4
45°	1903.1	583.3	146.3	117.4	107.2	93.2	94.6	103.0	109.5	116.0	117.4
47.5°	1874.3	522.7	129.5	102.0	88.5	79.7	82.5	89.9	95.0	104.8	106.2
50°	1822.5	473.3	112.3	83.4	72.2	69.0	73.1	78.3	84.8	93.2	94.1
52.5°	1787.6	436.1	97.4	69.9	59.6	60.6	64.8	66.6	70.3	73.6	72.7
55°	1767.6	415.6	85.3	60.6	50.8	53.6	54.5	52.2	50.3	47.1	45.7
57.5°	1765.2	396.9	75.9	52.6	44.7	46.1	42.9	34.9	28.4	24.7	23.8
60°	1761.5	374.1	68.5	44.3	39.6	37.7	30.7	19.1	13.5	12.6	12.6
62.5°	1721.0	338.7	62.9	37.3	33.5	28.4	17.7	8.9	7.5	7.9	7.9
65°	1591.9	289.3	57.3	30.3	26.6	20.5	8.9	5.1	2.8	3.3	3.3
67.5°	1353.4	230.6	51.2	23.3	20.0	13.0	5.1	2.3	0.0	0.0	0.0
70°	906.1	143.0	43.3	16.3	13.0	7.9	3.7	0.5	0.0	0.0	0.0
72.5°	347.6	77.3	34.9	9.8	8.4	5.6	2.3	0.0	0.0	0.0	0.0
75°	78.3	50.8	24.2	7.0	6.1	3.7	0.9	0.0	0.0	0.0	0.0
77.5°	29.8	36.8	14.0	4.7	4.2	2.3	0.0	0.0	0.0	0.0	0.0
80°	14.4	21.9	6.5	2.8	2.3	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	8.4	2.8	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	4.2	1.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.3	1.4	0.5	0.5	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)