

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: P301801

Luminaire Tested: **GAA-AF-01-LED-U-SL4-7030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P301801  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-01-LED-U-SL4-7030-HSS  
Description: GALLEONAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI  
3000K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV w/Spill  
Control WITH HOUSESIDE SHEILD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

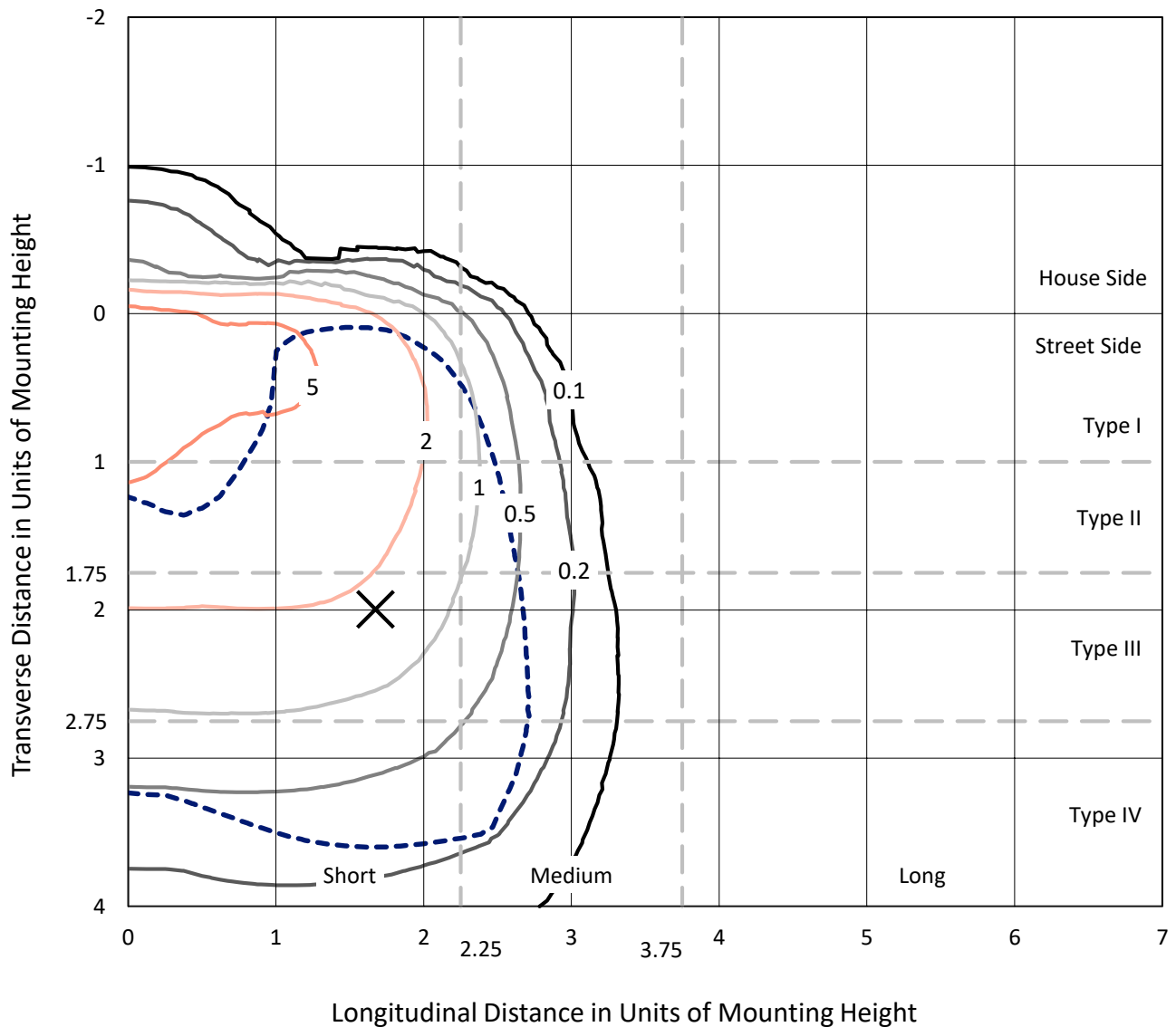
Lumens per Lamp: N/A  
Luminaire Lumens: 4445.5 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (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: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

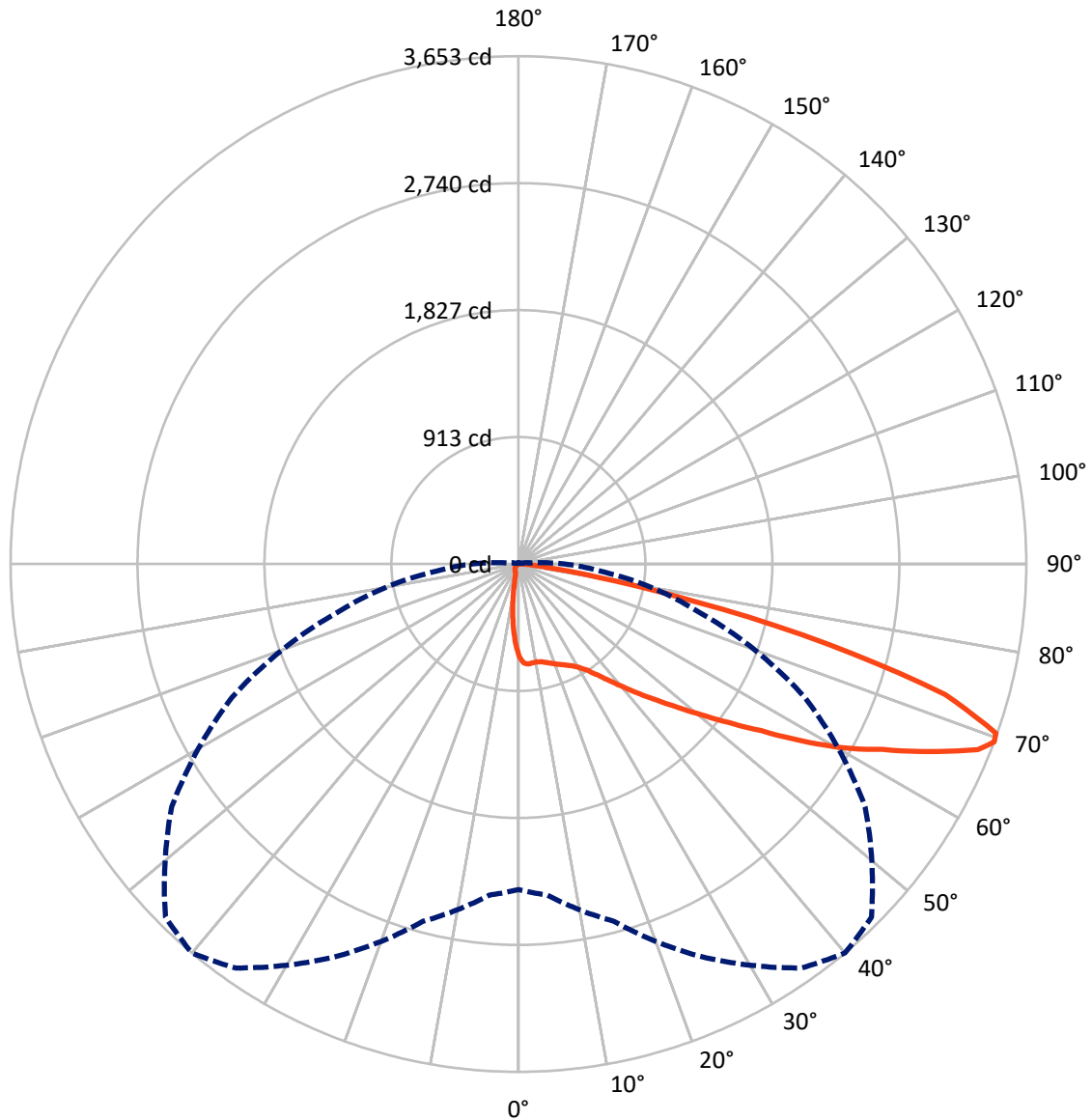
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	260.1	0.0	260.1
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	4185.4	0.0	4185.4
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	4445.5	0.0	4445.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.9	1.2
10°-20°	132.4	3.0
20°-30°	223.1	5.0
30°-40°	365.2	8.2
40°-50°	632.3	14.2
50°-60°	995.9	22.4
60°-70°	1300.6	29.3
70°-80°	669.8	15.1
80°-90°	72.5	1.6
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°	4445.5	100.0
0°-180°	4445.5	100.0



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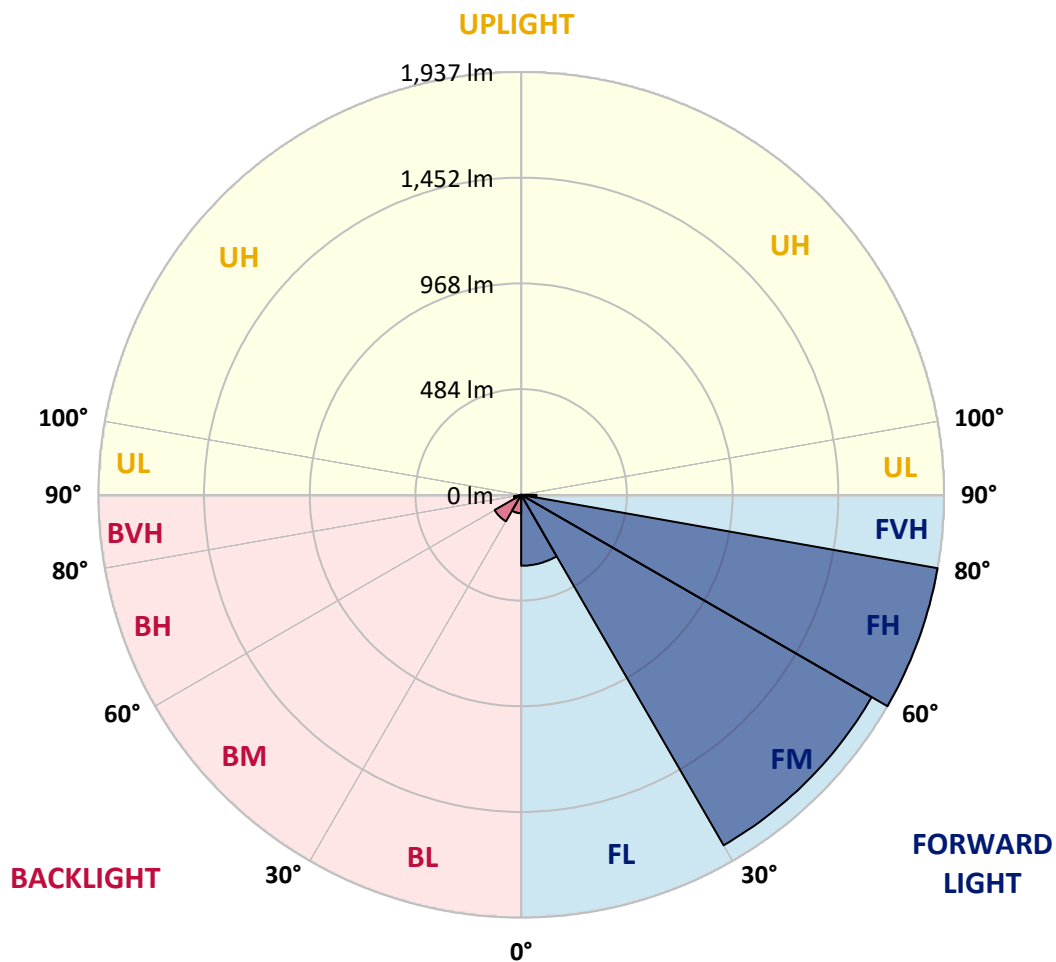
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	325.1	7.3			
FM	(30°-60°)	1853.5	41.7			
FH	(60°-80°)	1936.6	43.6			G2/5000
FVH	(80°-90°)	70.2	1.6			G1/100
BL	(0°-30°)	84.2	1.9	B0/110		
BM	(30°-60°)	139.8	3.1	B0/220		
BH	(60°-80°)	33.8	0.8	B0/110		G0/110
BVH	(80°-90°)	2.3	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2
2.5°	729.3	725.3	722.9	719.7	715.8	712.3	711.0	701.2	692.0	679.3	664.7
5°	742.8	741.4	737.2	733.0	728.2	722.9	720.0	708.4	695.1	676.6	651.2
7.5°	744.1	742.5	737.2	731.4	724.8	718.4	713.4	701.8	689.6	670.8	639.8
10°	742.0	740.1	736.2	729.8	721.6	715.5	710.5	699.4	689.1	672.1	637.7
12.5°	739.6	737.7	735.9	732.7	725.6	721.3	717.1	706.5	697.3	683.0	645.4
15°	742.0	740.9	743.0	741.7	737.7	734.0	729.8	720.3	711.8	699.9	659.4
17.5°	752.0	752.0	758.6	759.4	755.7	750.4	744.4	734.8	727.7	717.6	676.1
20°	775.6	774.8	783.3	784.8	775.8	767.6	758.6	747.0	741.4	735.1	692.5
22.5°	816.1	812.4	817.4	815.8	798.1	785.4	774.3	760.0	757.1	754.1	710.8
25°	868.7	866.6	870.0	854.4	823.2	806.0	792.8	776.6	776.6	779.6	731.4
27.5°	945.2	937.3	925.6	898.1	851.3	829.3	815.0	797.8	802.3	813.2	758.6
30°	1023.5	1014.8	988.1	945.7	885.4	862.4	845.7	827.7	838.3	858.1	795.2
32.5°	1100.8	1091.0	1053.2	999.7	934.4	911.3	895.2	875.3	893.1	926.4	848.6
35°	1175.7	1166.9	1123.3	1060.3	999.4	980.4	965.6	948.4	971.1	1017.7	924.0
37.5°	1259.8	1250.3	1197.1	1128.8	1078.6	1064.8	1054.0	1036.8	1076.4	1144.7	1029.1
40°	1363.3	1347.1	1275.4	1207.4	1170.1	1163.5	1156.1	1153.7	1215.4	1309.8	1169.1
42.5°	1481.8	1455.4	1357.5	1290.3	1270.7	1275.4	1273.6	1284.2	1389.2	1515.2	1339.5
45°	1600.4	1566.2	1448.8	1378.6	1381.3	1398.0	1408.3	1450.6	1607.0	1750.7	1522.9
47.5°	1700.9	1667.3	1536.3	1474.2	1505.9	1538.7	1566.8	1647.0	1830.9	1982.5	1665.5
50°	1786.9	1755.2	1629.2	1579.2	1650.7	1703.6	1749.1	1867.9	2071.7	2159.0	1765.5
52.5°	1857.3	1836.2	1725.5	1699.6	1816.0	1893.6	1960.3	2102.6	2284.9	2302.4	1843.3
55°	1925.9	1910.8	1829.0	1842.8	2010.3	2115.8	2200.3	2351.6	2468.6	2422.0	1917.9
57.5°	2004.7	1991.0	1947.0	2024.3	2265.6	2398.5	2490.5	2572.3	2630.3	2544.3	1988.3
60°	2085.2	2077.2	2078.3	2225.9	2558.8	2686.4	2737.2	2758.3	2789.0	2659.4	1992.3
62.5°	2161.9	2177.0	2228.3	2450.3	2839.6	2937.5	2963.1	2984.0	2948.1	2677.6	1840.7
65°	2291.8	2316.4	2438.9	2750.7	3148.4	3253.2	3279.6	3207.9	2973.2	2441.6	1497.2
67.5°	2355.3	2400.3	2618.9	3030.6	3447.9	3564.3	3554.6	3222.5	2668.1	1861.8	960.8
69°	2342.1	2390.0	2660.4	3116.4	3547.4	3653.0	3590.8	3044.4	2273.0	1348.7	589.8
70°	2289.7	2338.1	2639.0	3113.2	3560.1	3643.7	3523.6	2824.5	1921.9	986.2	368.9
72.5°	1912.1	1953.9	2342.9	2813.9	3279.6	3211.6	2947.8	1956.8	936.5	268.6	83.1
75°	1177.0	1200.3	1681.1	2119.8	2477.0	2302.4	1964.0	973.5	279.2	75.9	46.0
77.5°	621.8	632.4	920.3	1249.5	1570.2	1299.3	1006.6	379.7	128.6	47.6	33.3
80°	367.5	375.5	495.6	571.3	679.5	567.6	402.5	233.1	92.1	29.9	29.6
82.5°	210.4	215.4	359.3	317.5	267.8	228.6	200.3	221.0	55.3	20.1	30.7
85°	77.3	78.3	202.2	241.6	159.3	94.7	99.5	183.1	14.8	12.7	24.1
87.5°	36.0	35.2	104.0	147.9	93.1	60.1	77.5	40.2	5.8	8.2	6.6
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°	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2	664.2
2.5°	656.2	646.5	628.7	610.5	591.9	577.7	563.6	552.5	548.8	541.9	542.5
5°	636.1	618.1	581.1	543.5	504.4	472.1	441.6	417.0	405.1	393.0	393.0
7.5°	618.7	592.5	534.5	473.4	410.2	357.0	309.1	273.1	253.2	237.4	237.1
10°	612.1	576.6	495.6	408.0	319.9	247.4	190.5	154.0	135.2	123.0	122.5
12.5°	615.0	571.0	465.7	347.7	237.1	159.0	110.3	86.8	78.9	75.2	75.2
15°	623.4	569.4	435.8	288.7	167.5	99.5	73.3	66.9	66.4	66.4	66.4
17.5°	633.7	570.0	405.1	231.3	114.0	71.2	63.2	62.4	63.0	63.0	63.0
20°	644.3	570.2	372.0	178.1	80.4	61.9	59.5	59.3	59.8	59.8	60.1
22.5°	657.3	571.6	339.0	133.1	66.4	58.5	56.6	56.6	56.9	56.9	56.6
25°	672.1	574.2	304.6	98.7	60.6	56.1	54.5	54.2	54.5	54.2	54.0
27.5°	690.6	577.9	266.2	77.3	58.0	53.7	52.4	52.4	52.1	51.9	51.6
30°	713.9	582.1	223.1	65.6	55.3	51.6	50.3	50.0	49.7	49.2	49.2
32.5°	749.4	591.4	180.5	59.5	52.4	48.7	47.6	47.6	47.1	46.6	46.3
35°	803.9	609.7	142.4	55.8	49.2	45.5	44.2	44.2	43.7	43.4	43.1
37.5°	879.3	637.5	110.6	52.4	46.0	42.1	40.8	40.5	40.0	39.4	39.2
40°	979.6	671.9	87.1	49.2	42.9	38.6	37.6	37.0	36.0	35.2	35.2
42.5°	1105.6	711.0	70.7	45.8	39.2	35.5	34.7	33.9	32.0	31.2	31.0
45°	1237.3	746.2	59.8	41.8	35.5	32.3	31.8	30.4	28.0	27.3	27.3
47.5°	1332.3	754.4	52.7	38.1	32.0	28.8	28.6	26.2	24.1	23.6	23.3
50°	1391.6	738.3	46.8	34.4	28.8	25.7	24.9	22.0	20.6	20.1	19.8
52.5°	1431.6	709.4	42.1	31.2	25.9	22.8	20.9	18.8	17.7	17.2	17.2
55°	1463.6	668.7	37.3	28.3	23.6	20.4	17.7	16.1	15.1	14.6	14.6
57.5°	1472.6	613.4	32.5	25.9	21.2	18.0	15.1	14.0	12.7	12.4	12.4
60°	1407.2	513.6	28.8	23.0	19.1	15.6	13.2	11.9	10.6	10.3	10.1
62.5°	1235.0	397.4	25.4	20.4	16.7	13.5	11.4	9.8	8.7	8.7	8.7
65°	942.0	266.5	22.2	17.7	14.6	11.4	9.8	7.9	7.4	7.4	7.7
67.5°	563.9	145.0	19.1	15.1	12.4	9.5	8.2	6.9	6.6	6.9	6.9
69°	330.5	85.2	17.2	13.5	10.8	8.5	7.1	6.1	6.6	6.9	6.9
70°	204.0	57.4	15.9	12.2	9.8	7.7	6.6	5.8	6.4	6.6	6.6
72.5°	56.9	29.6	12.7	9.5	7.9	6.4	5.3	5.3	6.1	6.4	6.4
75°	37.0	22.0	9.8	7.1	6.1	5.0	4.5	5.0	5.8	6.1	6.1
77.5°	30.7	18.0	7.9	5.8	5.0	4.8	4.2	4.5	5.3	5.6	5.6
80°	28.0	12.7	6.4	5.3	4.5	4.2	4.0	3.7	4.8	5.0	5.0
82.5°	26.7	10.1	5.6	4.8	4.2	3.7	3.4	3.7	4.2	4.5	4.8
85°	16.7	6.6	5.0	4.5	3.7	3.4	3.4	3.4	4.0	4.2	4.2
87.5°	6.1	5.3	4.5	3.7	3.2	3.2	3.2	3.2	3.4	4.0	4.0
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)