

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: P483735

Luminaire Tested: **IFLD-S-SA3C-827-U-T4W-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483735  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-827-U-T4W-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield  
Light Source: (48) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

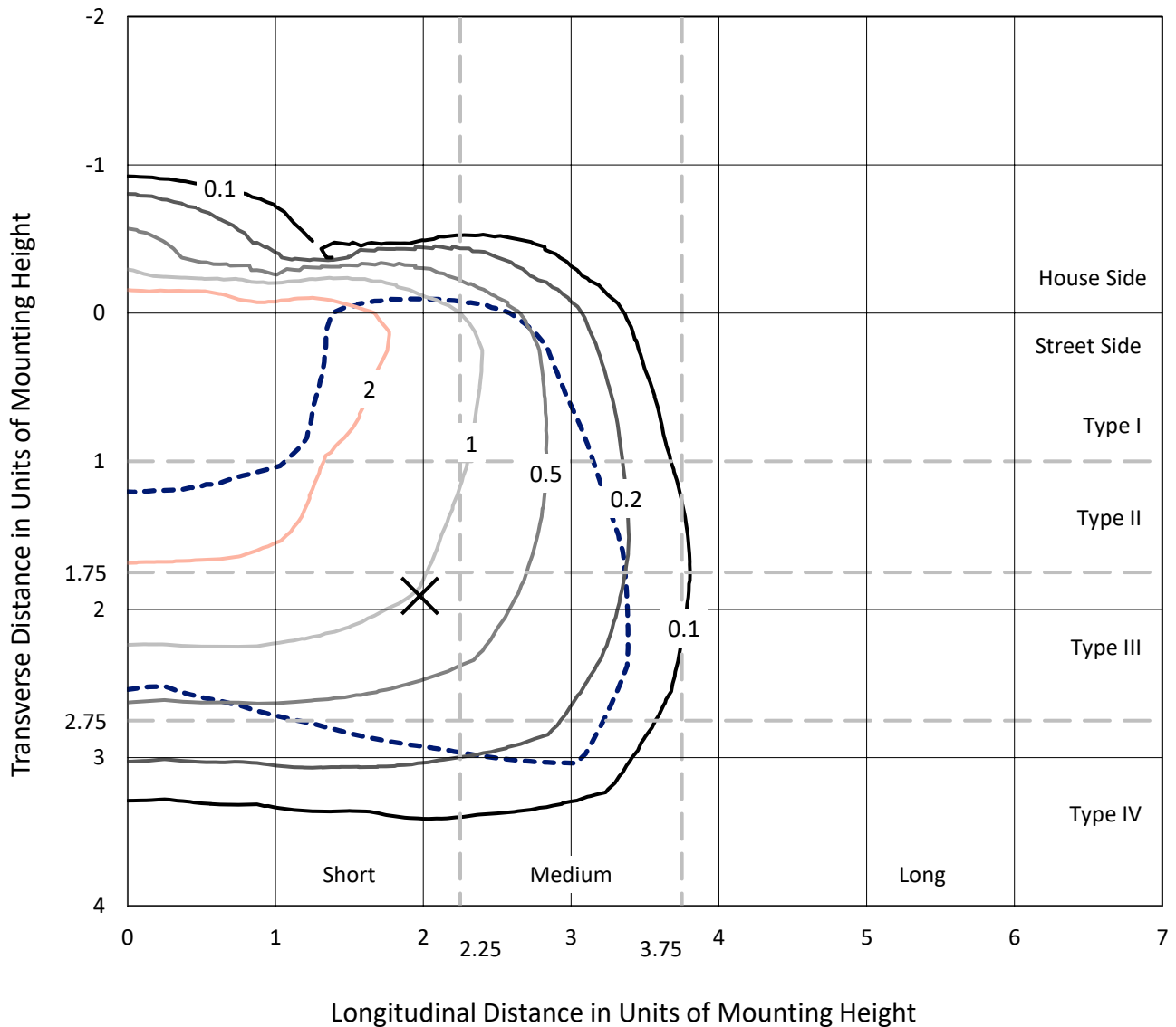
Lumens per Lamp: N/A  
Luminaire Lumens: 11488.8 lumens  
Efficiency: N/A  
Efficacy: 71.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8  
Input Voltage (V): 120  
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

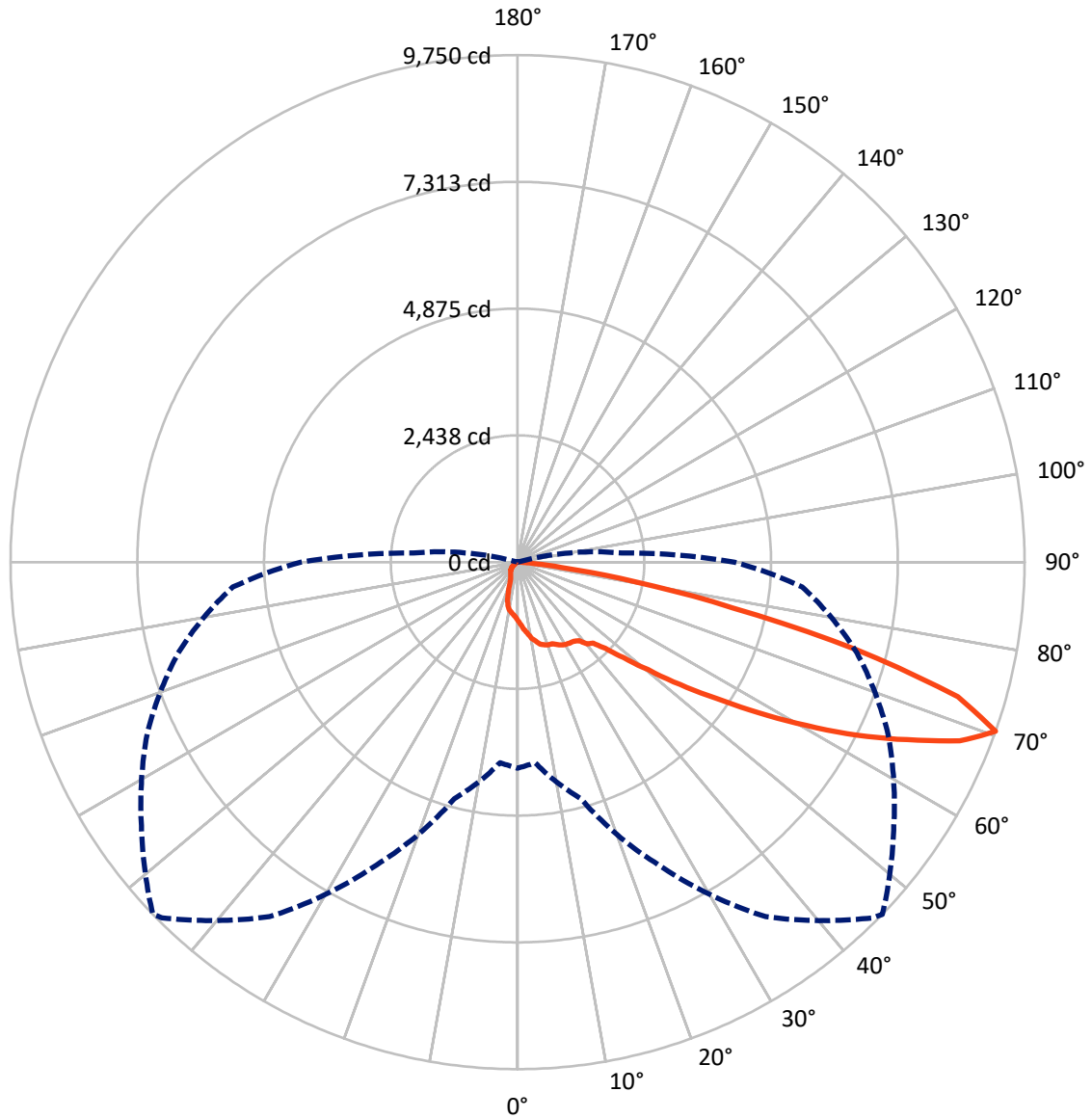
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1143.2	0.0	1143.2
	% Fixture	10.0	0.0	10.0
<b>Street Side</b>	Lumens	10345.6	0.0	10345.6
	% Fixture	90.0	0.0	90.0
<b>Total</b>	Lumens	11488.8	0.0	11488.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	1.0
10°-20°	339.6	3.0
20°-30°	544.0	4.7
30°-40°	776.5	6.8
40°-50°	1340.8	11.7
50°-60°	2567.0	22.3
60°-70°	3801.3	33.1
70°-80°	1882.8	16.4
80°-90°	124.4	1.1
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°	11488.8	100.0
0°-180°	11488.8	100.0



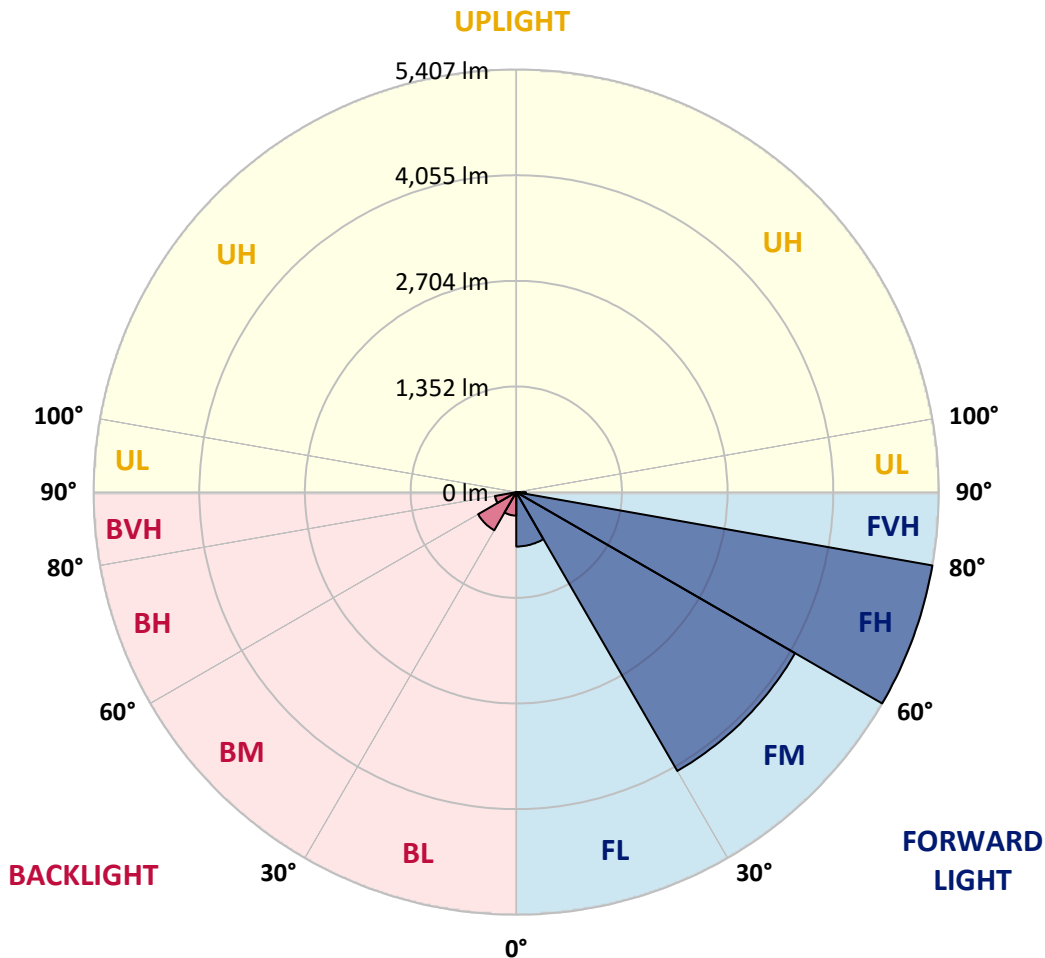
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	695.7	6.1			
FM (30°-60°)	4119.8	35.9			
FH (60°-80°)	5407.2	47.1			G3/7500
FVH (80°-90°)	122.8	1.1			G2/225
BL (0°-30°)	300.3	2.6	B1/500		
BM (30°-60°)	564.4	4.9	B1/1000		
BH (60°-80°)	276.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.6	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8
2.5°	1258.5	1250.2	1237.0	1232.0	1218.8	1212.2	1202.3	1197.3	1179.1	1160.9	1149.3
5°	1412.3	1392.4	1399.0	1379.2	1336.2	1301.5	1299.8	1261.8	1220.4	1187.4	1142.7
7.5°	1567.7	1551.2	1526.4	1498.3	1450.3	1399.0	1384.2	1347.8	1289.9	1232.0	1172.5
10°	1685.1	1673.6	1652.1	1612.4	1546.2	1488.3	1490.0	1428.8	1367.6	1301.5	1220.4
12.5°	1757.9	1762.9	1731.4	1691.8	1633.9	1561.1	1559.5	1518.1	1448.7	1379.2	1283.3
15°	1830.7	1848.9	1800.9	1754.6	1680.2	1627.3	1637.2	1587.6	1519.8	1440.4	1334.6
17.5°	1842.2	1847.2	1837.3	1769.5	1714.9	1670.3	1671.9	1638.8	1587.6	1501.6	1410.6
20°	1822.4	1819.1	1807.5	1757.9	1721.5	1695.1	1696.7	1688.4	1660.3	1590.9	1466.8
22.5°	1764.5	1764.5	1749.6	1716.6	1700.0	1724.8	1705.0	1736.4	1706.6	1665.3	1562.8
25°	1718.2	1736.4	1728.1	1706.6	1713.3	1746.3	1756.3	1786.0	1781.1	1729.8	1628.9
27.5°	1767.8	1746.3	1751.3	1726.5	1751.3	1800.9	1805.9	1827.4	1825.7	1784.4	1688.4
30°	1800.9	1820.7	1782.7	1728.1	1754.6	1838.9	1835.6	1863.7	1877.0	1827.4	1744.7
32.5°	1906.7	1890.2	1858.8	1786.0	1789.3	1837.3	1852.2	1888.5	1896.8	1867.0	1799.2
35°	2123.4	2098.6	1961.3	1852.2	1835.6	1858.8	1868.7	1939.8	1954.7	1921.6	1857.1
37.5°	2457.4	2401.2	2235.8	1994.4	1920.0	1915.0	1915.0	2009.3	2065.5	1989.4	1943.1
40°	2935.4	2856.0	2677.4	2257.3	2030.8	2050.6	2070.5	2121.7	2115.1	2065.5	2055.6
42.5°	3543.9	3482.7	3289.2	2698.9	2242.4	2143.2	2126.7	2196.1	2300.3	2280.5	2273.9
45°	4051.6	4054.9	3930.9	3304.1	2607.9	2356.6	2368.1	2421.0	2596.3	2581.5	2579.8
47.5°	4422.0	4375.7	4357.6	3887.9	3140.4	2761.7	2745.2	2781.6	3009.8	3104.0	3147.0
50°	4759.4	4728.0	4685.0	4455.1	3780.4	3269.4	3252.9	3256.2	3605.1	3737.4	3843.2
52.5°	5177.8	5217.5	5075.3	4934.7	4608.9	3929.2	3911.0	3846.6	4279.8	4461.7	4587.4
55°	5693.8	5619.3	5458.9	5531.7	5401.0	4642.0	4608.9	4532.8	5048.8	5124.9	5257.2
57.5°	5807.9	5751.6	5917.0	6175.0	6300.7	5478.8	5465.5	5328.3	5695.4	5626.0	5999.7
60°	6092.3	6107.2	6337.1	6849.7	7068.0	6444.5	6380.1	6138.6	6322.2	6335.4	6733.9
62.5°	6385.0	6350.3	6864.6	7357.4	7693.1	7359.1	7337.6	6858.0	7066.3	6897.7	7425.2
65°	6170.0	6222.9	6958.9	7784.1	8503.4	8253.7	8235.5	7550.9	7665.0	7455.0	7706.3
67.5°	5406.0	5298.5	6328.8	7588.9	8920.2	9191.4	9171.5	8306.6	8002.4	7451.7	7122.6
70°	3962.3	3869.7	4709.8	6426.4	8323.2	9671.0	9750.3	8832.5	7865.1	6757.1	5495.3
72.5°	1941.5	1943.1	2639.3	4357.6	6585.1	8814.3	8854.0	8098.3	6757.1	4981.0	3112.3
75°	573.8	580.5	977.3	2136.6	4256.7	6694.3	6738.9	6146.9	4683.3	2573.2	1061.7
77.5°	210.0	210.0	324.1	802.1	2123.4	4225.3	4221.9	3773.8	2371.4	871.5	248.1
80°	109.1	114.1	168.7	327.4	919.5	2201.1	2283.8	1847.2	901.3	367.1	72.8
82.5°	44.7	49.6	92.6	168.7	441.5	772.3	845.1	724.3	391.9	256.3	33.1
85°	13.2	14.9	44.7	94.3	173.6	193.5	215.0	243.1	246.4	198.4	14.9
87.5°	1.7	1.7	18.2	31.4	38.0	41.3	48.0	48.0	125.7	138.9	8.3
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°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8
2.5°	1136.1	1127.8	1114.6	1084.8	1078.2	1056.7	1055.1	1035.2	1041.8	1028.6	1023.7
5°	1127.8	1109.6	1073.3	1050.1	1027.0	1012.1	1002.2	993.9	992.2	985.6	982.3
7.5°	1142.7	1117.9	1061.7	1025.3	985.6	972.4	950.9	949.2	937.7	926.1	926.1
10°	1192.3	1147.7	1086.5	1025.3	974.0	931.0	881.4	845.1	831.8	802.1	805.4
12.5°	1232.0	1192.3	1103.0	1040.2	962.5	864.9	755.8	671.4	631.7	593.7	608.6
15°	1288.2	1230.4	1134.5	1043.5	917.8	749.1	570.5	476.3	439.9	431.6	430.0
17.5°	1349.4	1288.2	1174.1	1035.2	826.9	578.8	420.0	365.5	372.1	382.0	380.4
20°	1417.2	1342.8	1203.9	1007.1	683.0	420.0	344.0	342.3	352.2	367.1	370.4
22.5°	1488.3	1423.9	1240.3	922.8	509.3	337.4	330.7	330.7	337.4	355.5	352.2
25°	1567.7	1481.7	1258.5	792.1	365.5	310.9	314.2	320.8	324.1	339.0	340.7
27.5°	1628.9	1546.2	1263.4	635.0	297.7	287.7	296.0	304.3	309.2	320.8	325.8
30°	1685.1	1627.3	1237.0	473.0	272.9	267.9	271.2	282.8	292.7	302.6	302.6
32.5°	1756.3	1673.6	1175.8	335.7	258.0	249.7	248.1	253.0	264.6	276.2	276.2
35°	1829.0	1751.3	1078.2	269.6	244.8	233.2	226.6	221.6	226.6	234.8	241.4
37.5°	1934.9	1868.7	955.9	248.1	234.8	218.3	205.1	193.5	185.2	183.6	188.5
40°	2085.3	2001.0	798.7	233.2	223.3	203.4	183.6	163.7	145.5	134.0	135.6
42.5°	2313.6	2196.1	628.4	224.9	215.0	186.9	158.8	130.6	107.5	95.9	95.9
45°	2639.3	2454.1	461.4	216.6	205.1	167.0	130.6	97.6	74.4	67.8	69.5
47.5°	3130.5	2765.0	330.7	203.4	191.8	145.5	102.5	69.5	54.6	51.3	52.9
50°	3772.1	3133.8	258.0	188.5	175.3	122.4	76.1	51.3	43.0	41.3	43.0
52.5°	4445.2	3505.9	226.6	175.3	150.5	97.6	56.2	41.3	36.4	34.7	36.4
55°	5020.7	3745.7	196.8	155.4	120.7	72.8	44.7	36.4	31.4	26.5	26.5
57.5°	5602.8	3866.4	155.4	129.0	89.3	54.6	38.0	31.4	26.5	21.5	19.8
60°	6075.8	3952.4	110.8	95.9	62.8	43.0	33.1	28.1	21.5	16.5	14.9
62.5°	6386.7	3706.0	81.0	72.8	46.3	36.4	28.1	23.2	16.5	11.6	11.6
65°	6232.9	3365.3	62.8	51.3	34.7	28.1	23.2	16.5	11.6	6.6	5.0
67.5°	5592.9	2741.9	51.3	38.0	26.5	21.5	18.2	13.2	6.6	1.7	1.7
70°	4172.3	2009.3	41.3	28.1	21.5	16.5	13.2	8.3	3.3	1.7	0.0
72.5°	2282.1	1099.7	33.1	23.2	16.5	13.2	9.9	6.6	3.3	0.0	0.0
75°	754.1	292.7	24.8	16.5	9.9	8.3	6.6	5.0	1.7	0.0	0.0
77.5°	181.9	76.1	19.8	14.9	8.3	5.0	3.3	1.7	1.7	0.0	0.0
80°	56.2	31.4	14.9	9.9	6.6	5.0	1.7	0.0	0.0	0.0	0.0
82.5°	23.2	14.9	6.6	6.6	5.0	1.7	0.0	0.0	0.0	0.0	0.0
85°	11.6	8.3	5.0	3.3	3.3	1.7	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	3.3	1.7	1.7	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)