

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: P483189

Luminaire Tested: **IFLD-S-SA3C-735-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483189  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3C-735-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

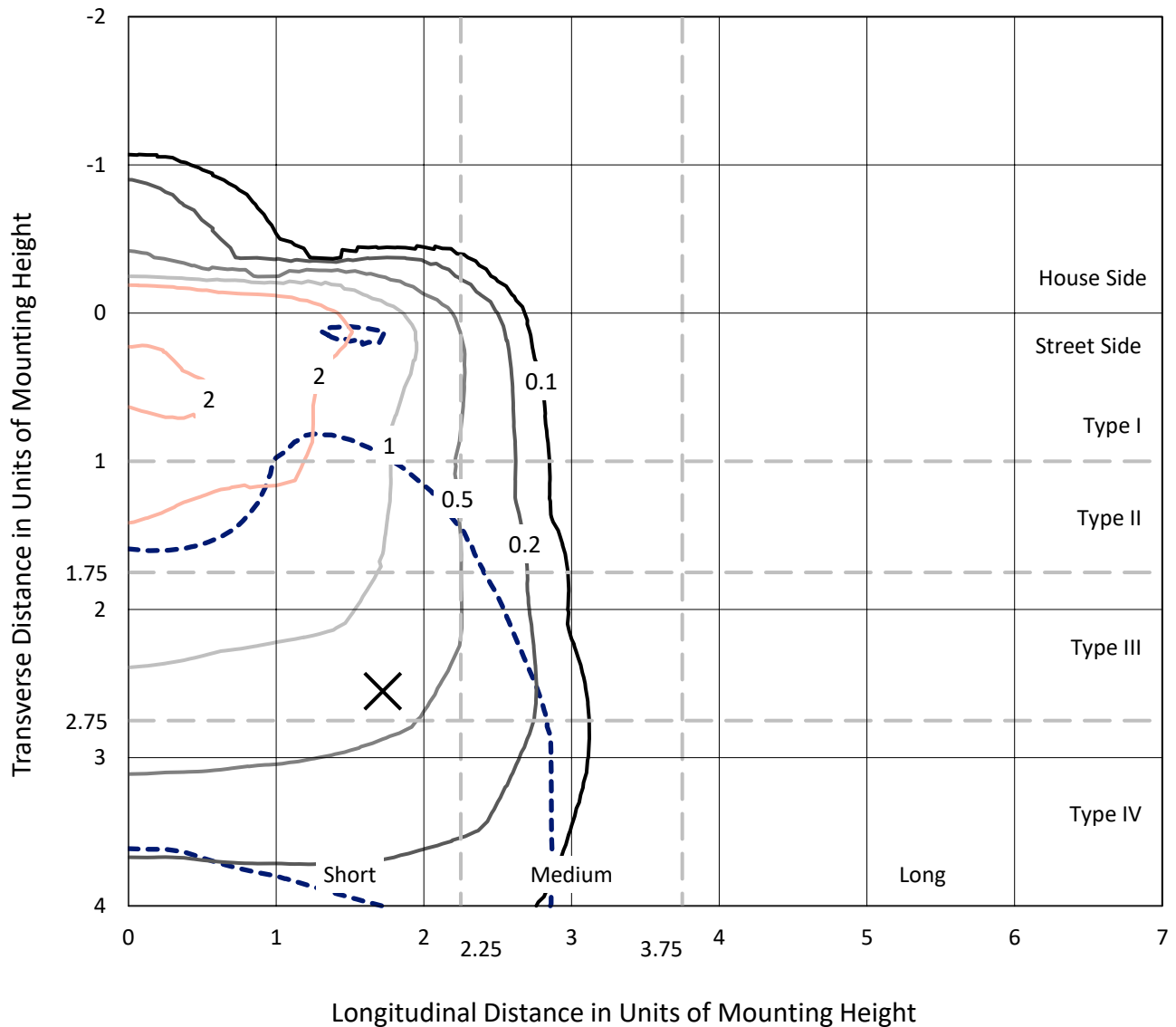
Lumens per Lamp: N/A  
Luminaire Lumens: 15106.6 lumens  
Efficiency: N/A  
Efficacy: 93.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

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

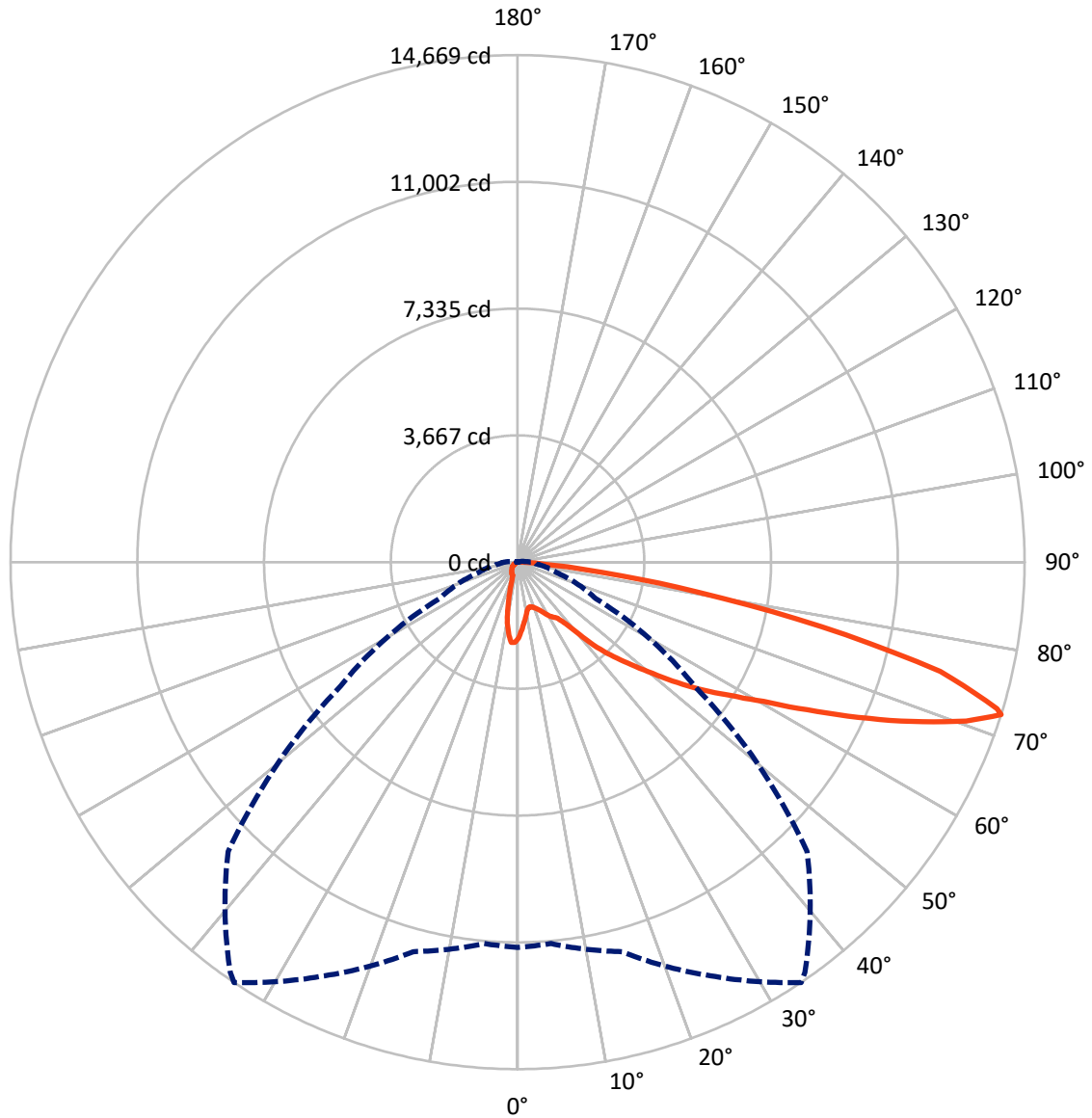
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral      - - - Horizontal Cone Through 72-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1546.6	0.0	1546.6
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	13560.0	0.0	13560.0
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	15106.6	0.0	15106.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	1.3
10°-20°	434.4	2.9
20°-30°	655.6	4.3
30°-40°	1063.9	7.0
40°-50°	2000.7	13.2
50°-60°	3271.2	21.7
60°-70°	4348.6	28.8
70°-80°	2912.2	19.3
80°-90°	228.2	1.5
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°	15106.6	100.0
0°-180°	15106.6	100.0



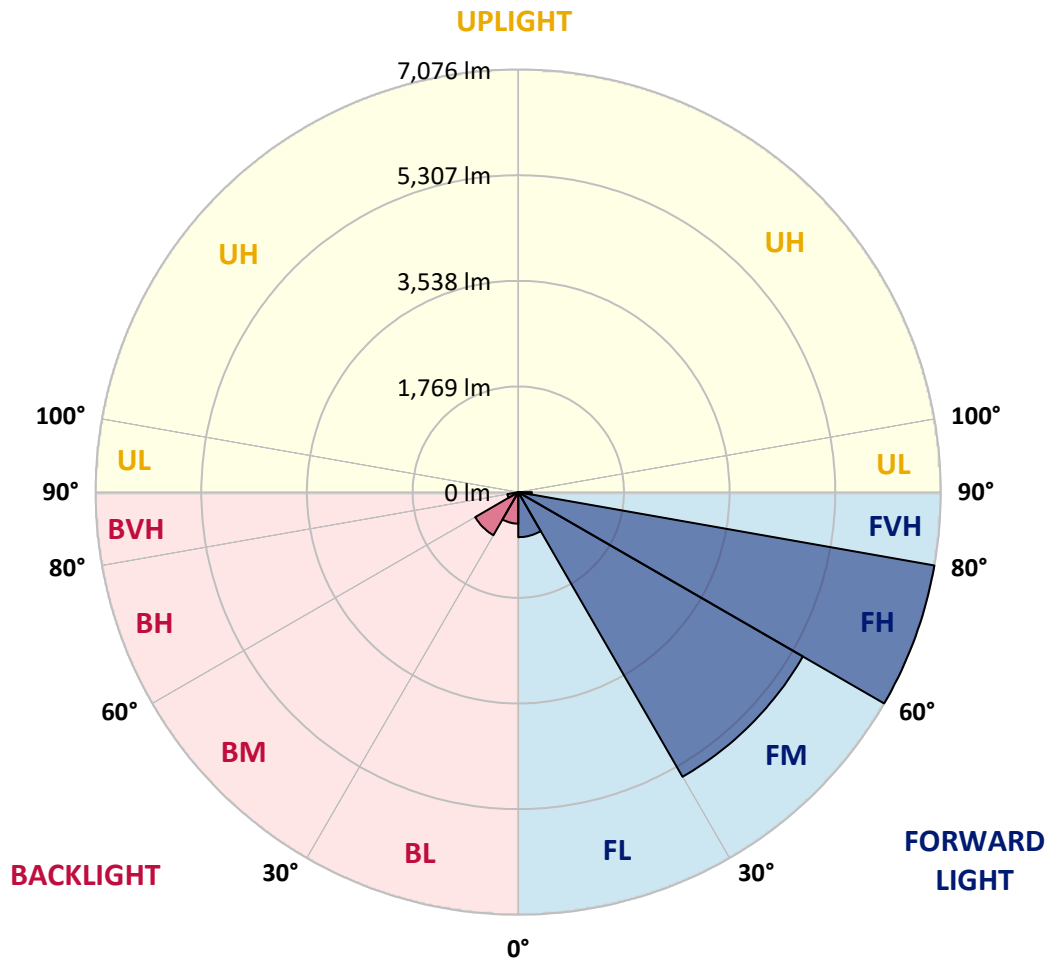
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	754.1	5.0			
FM (30°-60°)	5503.3	36.4			
FH (60°-80°)	7075.8	46.8			G3/7500
FVH (80°-90°)	226.8	1.5			G3/500
BL (0°-30°)	527.7	3.5	B2/1000		
BM (30°-60°)	832.5	5.5	B1/1000		
BH (60°-80°)	184.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1
2.5°	1954.6	1950.2	1963.3	1985.2	2007.0	1998.3	2039.8	2083.4	2114.0	2155.5	2205.7
5°	1707.8	1718.7	1731.8	1775.5	1803.9	1810.5	1886.9	1943.7	2037.6	2133.7	2223.2
7.5°	1482.9	1496.0	1522.2	1570.2	1629.2	1644.5	1720.9	1834.5	1956.8	2083.4	2229.8
10°	1319.1	1332.2	1360.6	1391.1	1469.8	1469.8	1574.6	1731.8	1891.3	2039.8	2231.9
12.5°	1284.1	1290.7	1288.5	1312.5	1362.8	1373.7	1476.3	1648.8	1834.5	2024.5	2266.9
15°	1325.6	1330.0	1308.2	1295.1	1338.7	1349.6	1445.7	1598.6	1797.3	2033.2	2323.7
17.5°	1408.6	1393.3	1349.6	1330.0	1367.1	1373.7	1463.2	1596.4	1793.0	2057.2	2389.2
20°	1456.7	1474.1	1397.7	1360.6	1413.0	1421.7	1517.8	1631.4	1814.8	2098.7	2480.9
22.5°	1541.8	1550.6	1447.9	1423.9	1474.1	1474.1	1583.3	1701.3	1867.2	2166.4	2590.1
25°	1661.9	1651.0	1530.9	1506.9	1554.9	1574.6	1683.8	1812.6	1948.0	2229.8	2690.6
27.5°	1755.9	1762.4	1664.1	1600.8	1681.6	1694.7	1812.6	1932.8	2009.2	2282.2	2812.9
30°	1895.6	1882.5	1777.7	1705.6	1806.1	1808.3	1921.8	2046.3	2127.1	2376.1	2996.3
32.5°	2061.6	2035.4	1915.3	1812.6	1893.4	1913.1	2028.8	2210.1	2310.6	2553.0	3280.2
35°	2413.2	2349.9	2153.3	1993.9	2000.5	2009.2	2188.3	2448.2	2563.9	2777.9	3660.2
37.5°	2926.4	2900.2	2677.5	2373.9	2258.2	2231.9	2432.9	2762.6	2906.8	3074.9	4153.8
40°	3435.3	3398.1	3190.7	2961.4	2751.7	2699.3	2799.8	3179.8	3310.8	3487.7	4660.4
42.5°	4000.9	3935.4	3690.8	3505.2	3374.1	3317.3	3278.0	3703.9	3852.4	3972.5	5156.2
45°	4573.1	4466.1	4112.3	3970.3	3900.4	3869.9	3865.5	4363.4	4453.0	4477.0	5706.5
47.5°	5075.4	4959.6	4638.6	4479.2	4426.8	4418.0	4662.6	5123.4	5053.5	4990.2	6320.2
50°	5461.9	5387.7	5156.2	5099.4	5060.1	5044.8	5617.0	5905.3	5582.0	5470.7	6859.6
52.5°	6060.3	5894.3	5632.3	5651.9	5789.5	5791.7	6584.5	6647.8	6021.0	5800.4	7368.5
55°	6538.6	6429.4	6215.4	6187.0	6549.5	6588.8	7451.5	7211.2	6265.6	6114.9	7556.3
57.5°	7102.0	7051.8	6896.8	6901.1	7281.1	7364.1	8222.4	7687.3	6468.7	6318.0	7584.7
60°	7916.6	7772.5	7691.7	7728.8	8176.5	8257.3	8969.3	8030.2	6567.0	6451.2	7514.8
62.5°	8816.4	8648.2	8560.9	8750.9	9403.9	9417.0	9537.1	8333.8	6505.8	6486.2	7064.9
65°	9899.6	9733.6	9663.8	10045.9	10821.2	10773.2	10334.2	8462.6	6311.5	6134.6	5883.4
67.5°	10978.5	10878.0	10733.9	11343.2	12308.5	12308.5	11161.9	8414.6	5802.6	4924.7	3848.0
70°	11489.5	11559.4	11788.7	12745.2	13769.5	13664.7	11978.7	7862.0	4319.8	2644.7	1513.4
72°	11148.8	11076.7	11668.6	13203.9	14669.3	14496.7	11841.1	6250.3	2496.2	1159.7	526.3
72.5°	10563.5	10631.2	11445.8	13140.5	14501.1	14643.0	11504.8	5765.5	2052.9	923.8	397.5
75°	6477.4	6593.2	8543.4	11157.5	12636.0	12476.6	8899.4	2747.3	788.4	393.1	142.0
77.5°	2365.2	2461.3	4145.0	7021.2	8986.7	8886.3	5149.6	976.2	428.0	292.6	72.1
80°	615.9	666.1	1408.6	3238.7	5285.0	5291.6	2155.5	390.9	290.5	240.2	43.7
82.5°	122.3	135.4	432.4	1260.1	2470.0	2437.2	681.4	209.7	218.4	196.6	30.6
85°	15.3	19.7	91.7	428.0	799.3	716.3	168.2	104.8	161.6	152.9	19.7
87.5°	2.2	2.2	21.8	98.3	168.2	163.8	34.9	32.8	72.1	93.9	10.9
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°	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1	2210.1
2.5°	2234.1	2242.9	2273.4	2299.6	2330.2	2339.0	2325.9	2347.7	2317.1	2334.6	2339.0
5°	2238.5	2288.7	2345.5	2382.6	2373.9	2352.1	2334.6	2275.6	2234.1	2218.8	2251.6
7.5°	2269.1	2325.9	2387.0	2387.0	2339.0	2225.4	2116.2	2011.4	1924.0	1880.3	1917.5
10°	2308.4	2367.3	2430.7	2347.7	2168.6	1961.1	1806.1	1609.5	1476.3	1406.4	1413.0
12.5°	2360.8	2443.8	2465.6	2273.4	1976.4	1668.5	1386.8	1113.8	987.1	886.7	888.8
15°	2428.5	2509.3	2443.8	2111.8	1731.8	1277.6	939.1	679.2	578.7	526.3	526.3
17.5°	2518.0	2579.2	2437.2	1963.3	1402.1	873.6	576.5	458.6	436.8	428.0	428.0
20°	2622.9	2668.7	2373.9	1731.8	1041.7	561.3	423.7	410.6	412.8	408.4	408.4
22.5°	2740.8	2756.1	2301.8	1463.2	705.4	414.9	395.3	397.5	399.7	395.3	397.5
25°	2865.3	2823.8	2197.0	1148.7	469.5	377.8	382.2	386.6	388.7	390.9	390.9
27.5°	3005.0	2922.1	2050.7	840.8	366.9	356.0	369.1	382.2	384.4	384.4	382.2
30°	3210.3	3072.7	1908.7	570.0	323.2	332.0	353.8	369.1	380.0	380.0	377.8
32.5°	3470.2	3230.0	1710.0	388.7	299.2	303.6	321.0	351.6	375.6	377.8	371.3
35°	3830.6	3420.0	1502.5	310.1	281.7	283.9	294.8	318.8	360.3	373.4	371.3
37.5°	4210.6	3636.2	1244.8	279.5	268.6	266.4	273.0	292.6	329.8	362.5	364.7
40°	4614.6	3863.3	974.0	264.3	257.7	253.3	255.5	264.3	292.6	334.1	342.9
42.5°	4994.6	4068.6	731.6	249.0	246.8	242.4	242.4	244.6	259.9	288.3	292.6
45°	5405.2	4236.8	556.9	238.0	231.5	233.7	224.9	220.6	231.5	233.7	231.5
47.5°	5789.5	4404.9	445.5	224.9	218.4	218.4	207.5	198.7	198.7	179.1	176.9
50°	6149.9	4496.6	356.0	207.5	205.3	203.1	187.8	172.5	159.4	135.4	131.0
52.5°	6449.1	4492.3	275.2	185.6	192.2	185.6	161.6	139.8	120.1	98.3	93.9
55°	6538.6	4282.6	207.5	152.9	163.8	155.1	128.9	109.2	87.4	69.9	67.7
57.5°	6462.2	3963.8	157.2	117.9	126.7	117.9	98.3	80.8	61.1	48.0	43.7
60°	6206.6	3590.3	122.3	91.7	96.1	89.5	74.3	61.1	43.7	30.6	26.2
62.5°	5721.8	3123.0	93.9	72.1	69.9	69.9	56.8	45.9	30.6	17.5	15.3
65°	4695.4	2435.0	72.1	50.2	50.2	50.2	43.7	32.8	19.7	8.7	4.4
67.5°	2948.3	1417.4	59.0	39.3	37.1	37.1	30.6	21.8	10.9	2.2	0.0
70°	1109.4	519.8	45.9	30.6	28.4	28.4	21.8	13.1	6.6	0.0	0.0
72°	382.2	198.7	37.1	21.8	21.8	19.7	15.3	10.9	4.4	0.0	0.0
72.5°	314.5	159.4	34.9	21.8	19.7	19.7	15.3	10.9	4.4	0.0	0.0
75°	113.6	65.5	24.0	15.3	13.1	13.1	10.9	6.6	2.2	0.0	0.0
77.5°	56.8	41.5	19.7	13.1	10.9	6.6	6.6	4.4	2.2	0.0	0.0
80°	34.9	26.2	10.9	8.7	6.6	4.4	2.2	2.2	0.0	0.0	0.0
82.5°	24.0	15.3	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.3	6.6	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	4.4	2.2	0.0	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)