

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: P483385

Luminaire Tested: **IFLD-S-SA3D-830-U-T4FT-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P483385  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-830-U-T4FT-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

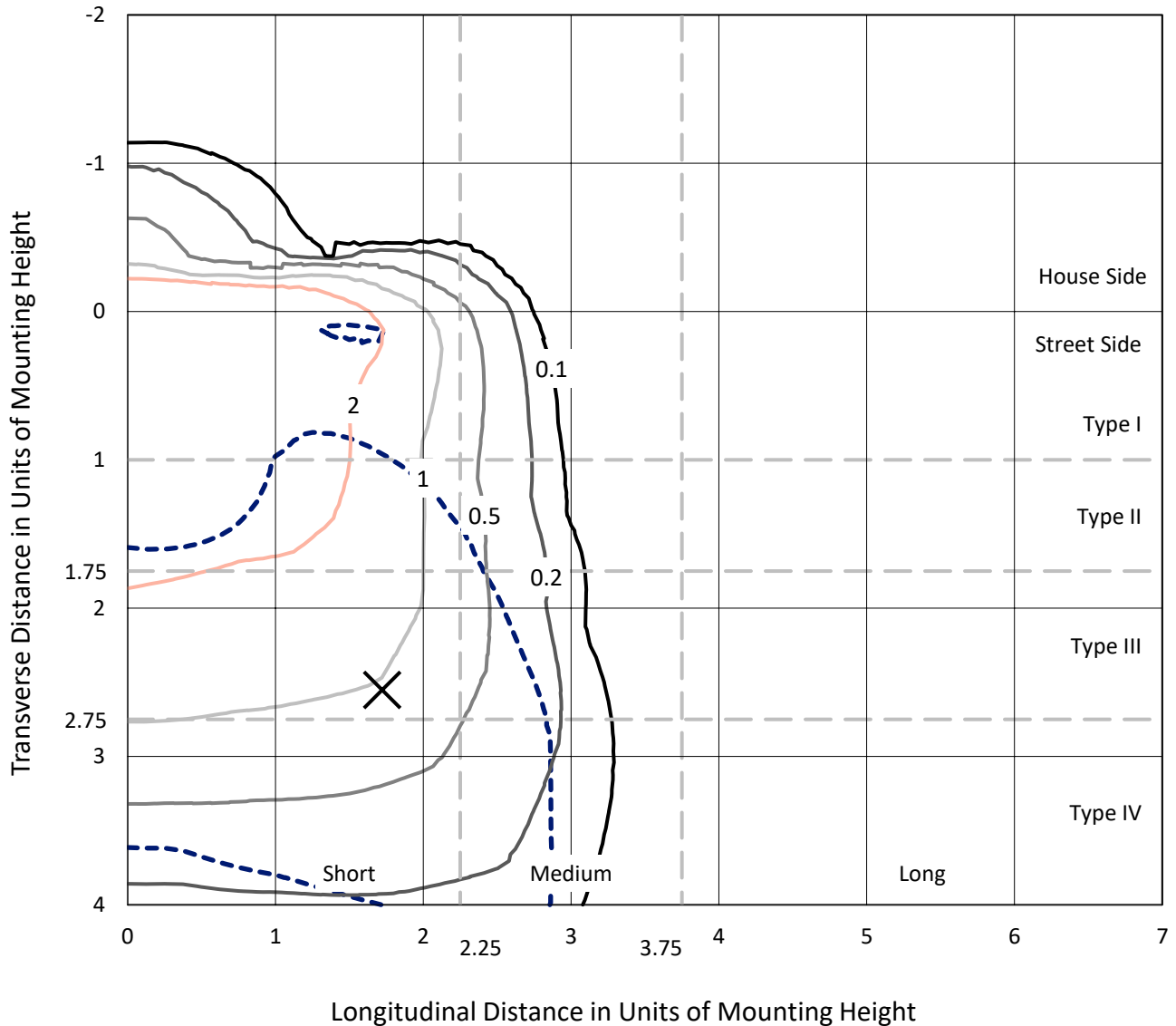
Lumens per Lamp: N/A  
Luminaire Lumens: 13391.4 lumens  
Efficiency: N/A  
Efficacy: 72.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

Input Watts (W): 184.1  
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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 CATALOG NUMBER: IFLD-S-SA3D-830-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

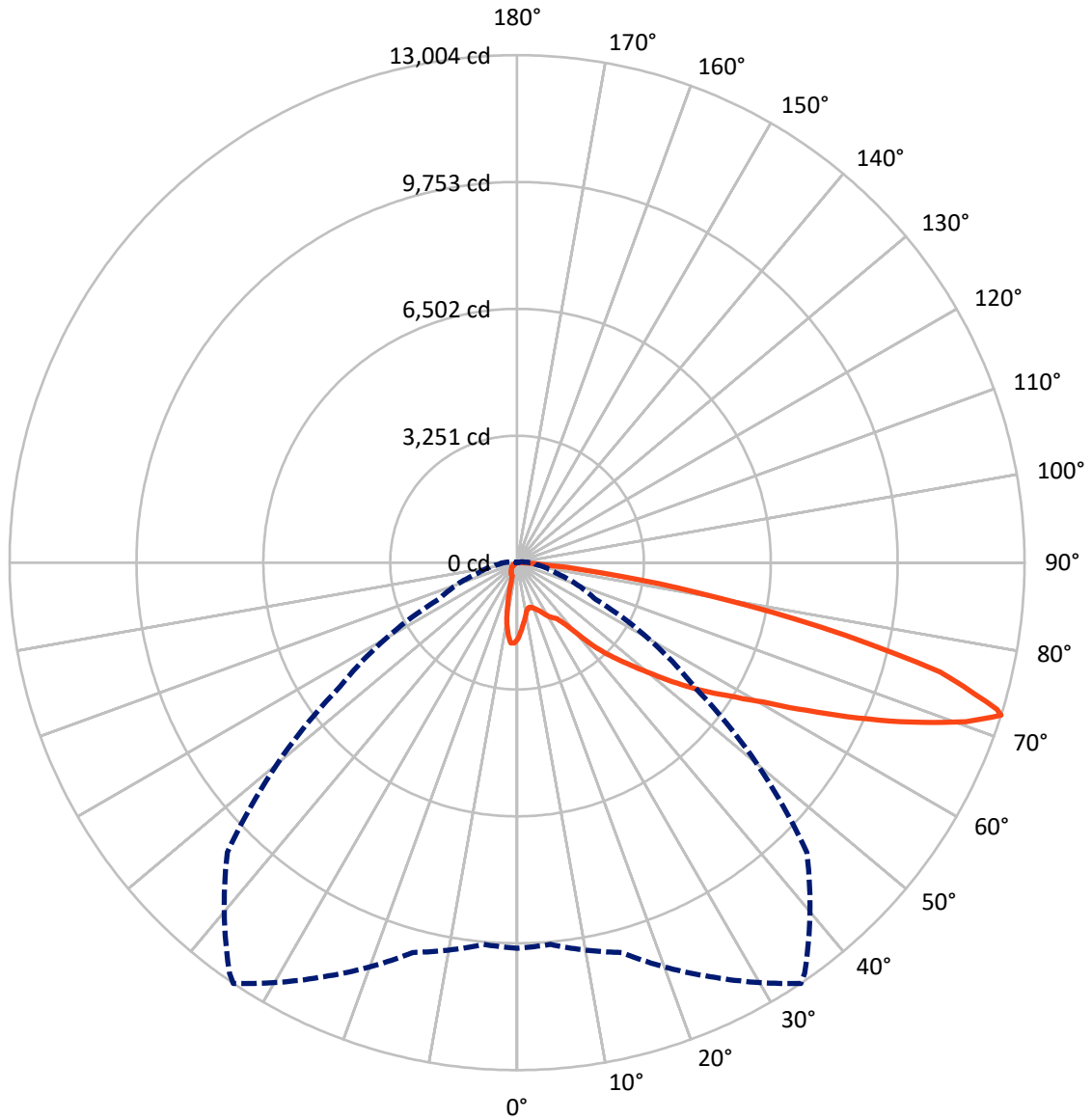
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.9 fc  
 Type IV - Short - N/A

REPORT NUMBER: P483385  
CATALOG NUMBER: IFLD-S-SA3D-830-U-T4FT-HSS

### 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	1371.0	0.0	1371.0
	% Fixture	10.2	0.0	10.2
<b>Street Side</b>	Lumens	12020.4	0.0	12020.4
	% Fixture	89.8	0.0	89.8
<b>Total</b>	Lumens	13391.4	0.0	13391.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	170.1	1.3
10°-20°	385.0	2.9
20°-30°	581.2	4.3
30°-40°	943.1	7.0
40°-50°	1773.5	13.2
50°-60°	2899.8	21.7
60°-70°	3854.8	28.8
70°-80°	2581.5	19.3
80°-90°	202.3	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°	13391.4	100.0
0°-180°	13391.4	100.0

**Coefficient of Utilization**



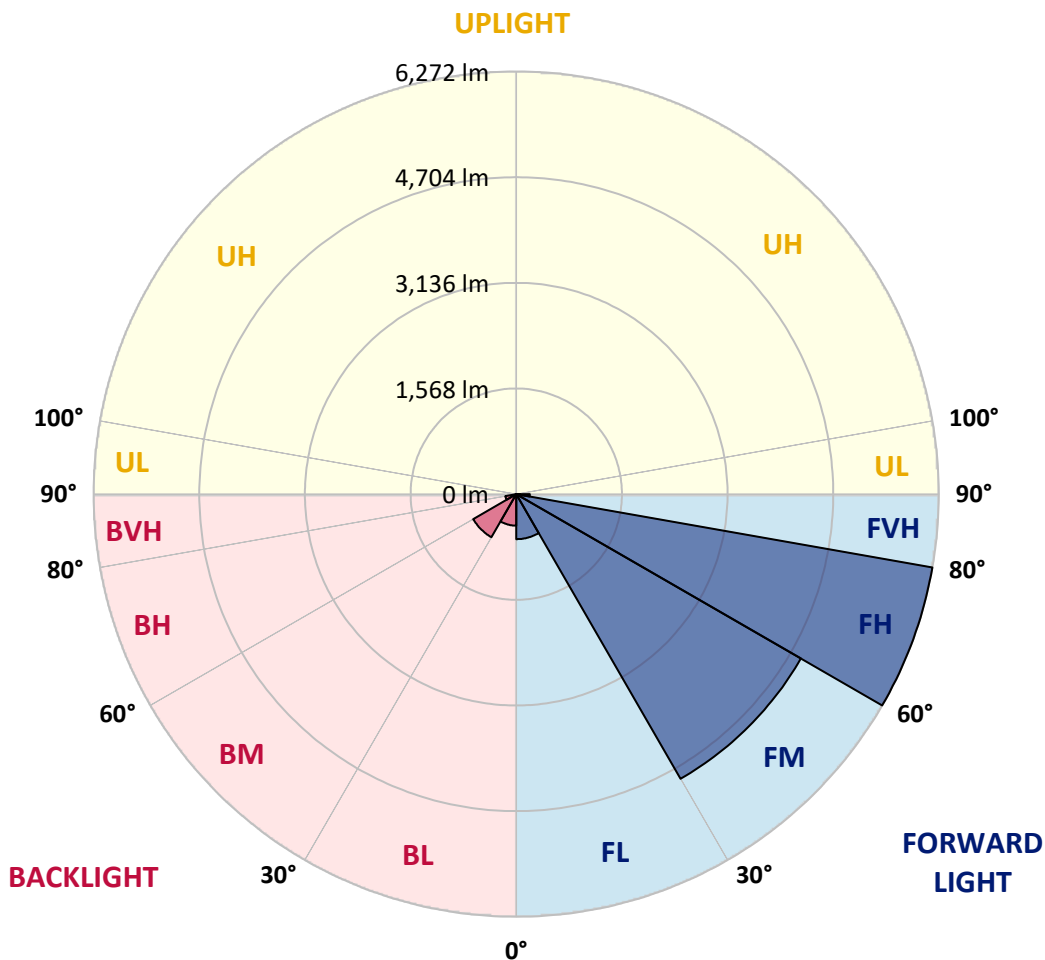
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 CATALOG NUMBER: IFLD-S-SA3D-830-U-T4FT-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	668.5	5.0			
FM (30°-60°)	4878.5	36.4			
FH (60°-80°)	6272.4	46.8			G3/7500
FVH (80°-90°)	201.0	1.5			G2/225
BL (0°-30°)	467.8	3.5	B1/500		
BM (30°-60°)	738.0	5.5	B1/1000		
BH (60°-80°)	163.9	1.2	B1/500		G1/500
BVH (80°-90°)	1.3	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





REPORT NUMBER: P483385

CATALOG NUMBER: IFLD-S-SA3D-830-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2
2.5°	1732.7	1728.8	1740.4	1759.8	1779.1	1771.4	1808.2	1846.9	1874.0	1910.8	1955.3
5°	1513.9	1523.6	1535.2	1573.9	1599.1	1604.9	1672.7	1723.0	1806.2	1891.4	1970.8
7.5°	1314.5	1326.1	1349.4	1391.9	1444.2	1457.8	1525.5	1626.2	1734.6	1846.9	1976.6
10°	1169.3	1180.9	1206.1	1233.2	1302.9	1302.9	1395.8	1535.2	1676.5	1808.2	1978.5
12.5°	1138.3	1144.1	1142.2	1163.5	1208.0	1217.7	1308.7	1461.6	1626.2	1794.6	2009.5
15°	1175.1	1179.0	1159.6	1148.0	1186.7	1196.4	1281.6	1417.1	1593.3	1802.4	2059.8
17.5°	1248.7	1235.1	1196.4	1179.0	1211.9	1217.7	1297.1	1415.2	1589.4	1823.7	2117.9
20°	1291.3	1306.8	1239.0	1206.1	1252.6	1260.3	1345.5	1446.1	1608.8	1860.4	2199.2
22.5°	1366.8	1374.5	1283.5	1262.2	1306.8	1306.8	1403.6	1508.1	1655.2	1920.5	2296.0
25°	1473.3	1463.6	1357.1	1335.8	1378.4	1395.8	1492.6	1606.8	1726.9	1976.6	2385.1
27.5°	1556.5	1562.3	1475.2	1419.0	1490.7	1502.3	1606.8	1713.3	1781.1	2023.1	2493.5
30°	1680.4	1668.8	1575.9	1512.0	1601.0	1603.0	1703.6	1814.0	1885.6	2106.3	2656.1
32.5°	1827.5	1804.3	1697.8	1606.8	1678.5	1695.9	1798.5	1959.2	2048.2	2263.1	2907.8
35°	2139.2	2083.1	1908.8	1767.5	1773.3	1781.1	1939.8	2170.2	2272.8	2462.5	3244.6
37.5°	2594.2	2570.9	2373.5	2104.4	2001.8	1978.5	2156.6	2449.0	2576.7	2725.8	3682.2
40°	3045.2	3012.3	2828.4	2625.1	2439.3	2392.8	2481.9	2818.7	2934.9	3091.7	4131.3
42.5°	3546.6	3488.6	3271.7	3107.2	2991.0	2940.7	2905.8	3283.4	3415.0	3521.5	4570.8
45°	4053.9	3959.0	3645.4	3519.5	3457.6	3430.5	3426.6	3868.0	3947.4	3968.7	5058.6
47.5°	4499.1	4396.5	4111.9	3970.6	3924.2	3916.4	4133.2	4541.7	4479.8	4423.6	5602.6
50°	4841.8	4776.0	4570.8	4520.4	4485.6	4472.0	4979.2	5234.8	4948.3	4849.5	6080.8
52.5°	5372.2	5225.1	4992.8	5010.2	5132.2	5134.1	5836.9	5893.0	5337.4	5141.9	6531.9
55°	5796.2	5699.4	5509.7	5484.5	5805.9	5840.7	6605.4	6392.5	5554.2	5420.6	6698.4
57.5°	6295.7	6251.2	6113.7	6117.6	6454.4	6528.0	7288.8	6814.5	5734.3	5600.7	6723.5
60°	7017.8	6890.0	6818.4	6851.3	7248.2	7319.8	7950.9	7118.5	5821.4	5718.8	6661.6
62.5°	7815.4	7666.3	7588.9	7757.3	8336.2	8347.8	8454.3	7387.6	5767.2	5749.7	6262.8
65°	8775.6	8628.5	8566.5	8905.3	9592.6	9550.0	9160.9	7501.8	5594.9	5438.1	5215.4
67.5°	9732.0	9642.9	9515.2	10055.3	10911.0	10911.0	9894.6	7459.2	5143.8	4365.5	3411.1
70°	10185.0	10246.9	10450.2	11298.2	12206.1	12113.2	10618.6	6969.4	3829.3	2344.4	1341.6
72°	9883.0	9819.1	10343.7	11704.7	13003.7	12850.8	10496.7	5540.7	2212.8	1028.0	466.6
72.5°	9364.1	9424.2	10146.3	11648.6	12854.7	12980.5	10198.5	5110.9	1819.8	818.9	352.3
75°	5742.0	5844.6	7573.4	9890.7	11201.4	11060.0	7889.0	2435.4	698.9	348.5	125.8
77.5°	2096.6	2181.8	3674.4	6224.1	7966.4	7877.3	4564.9	865.4	379.4	259.4	63.9
80°	545.9	590.5	1248.7	2871.0	4685.0	4690.8	1910.8	346.5	257.5	213.0	38.7
82.5°	108.4	120.0	383.3	1117.0	2189.5	2160.5	604.0	185.9	193.6	174.2	27.1
85°	13.6	17.4	81.3	379.4	708.6	635.0	149.1	92.9	143.3	135.5	17.4
87.5°	1.9	1.9	19.4	87.1	149.1	145.2	31.0	29.0	63.9	83.2	9.7
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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CATALOG NUMBER: IFLD-S-SA3D-830-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2	1959.2
2.5°	1980.5	1988.2	2015.3	2038.5	2065.6	2073.4	2061.8	2081.1	2054.0	2069.5	2073.4
5°	1984.3	2028.9	2079.2	2112.1	2104.4	2085.0	2069.5	2017.3	1980.5	1966.9	1996.0
7.5°	2011.4	2061.8	2116.0	2116.0	2073.4	1972.7	1875.9	1783.0	1705.6	1666.8	1699.8
10°	2046.3	2098.6	2154.7	2081.1	1922.4	1738.5	1601.0	1426.8	1308.7	1246.7	1252.6
12.5°	2092.8	2166.3	2185.7	2015.3	1752.0	1479.1	1229.3	987.3	875.0	786.0	787.9
15°	2152.8	2224.4	2166.3	1872.1	1535.2	1132.5	832.5	602.1	513.0	466.6	466.6
17.5°	2232.1	2286.3	2160.5	1740.4	1242.9	774.4	511.1	406.5	387.2	379.4	379.4
20°	2325.1	2365.7	2104.4	1535.2	923.4	497.5	375.6	364.0	365.9	362.0	362.0
22.5°	2429.6	2443.2	2040.5	1297.1	625.3	367.8	350.4	352.3	354.3	350.4	352.3
25°	2540.0	2503.2	1947.6	1018.3	416.2	334.9	338.8	342.7	344.6	346.5	346.5
27.5°	2663.9	2590.3	1817.8	745.3	325.2	315.6	327.2	338.8	340.7	340.7	338.8
30°	2845.8	2723.9	1692.0	505.3	286.5	294.3	313.6	327.2	336.9	336.9	334.9
32.5°	3076.2	2863.3	1515.8	344.6	265.2	269.1	284.6	311.7	333.0	334.9	329.1
35°	3395.6	3031.7	1331.9	274.9	249.7	251.7	261.4	282.6	319.4	331.0	329.1
37.5°	3732.5	3223.3	1103.5	247.8	238.1	236.2	242.0	259.4	292.3	321.4	323.3
40°	4090.6	3424.7	863.4	234.2	228.4	224.6	226.5	234.2	259.4	296.2	303.9
42.5°	4427.5	3606.7	648.5	220.7	218.8	214.9	214.9	216.8	230.4	255.5	259.4
45°	4791.5	3755.7	493.7	211.0	205.2	207.1	199.4	195.5	205.2	207.1	205.2
47.5°	5132.2	3904.8	394.9	199.4	193.6	193.6	183.9	176.2	176.2	158.7	156.8
50°	5451.6	3986.1	315.6	183.9	182.0	180.0	166.5	152.9	141.3	120.0	116.2
52.5°	5716.8	3982.2	243.9	164.6	170.4	164.6	143.3	123.9	106.5	87.1	83.2
55°	5796.2	3796.4	183.9	135.5	145.2	137.5	114.2	96.8	77.4	62.0	60.0
57.5°	5728.5	3513.7	139.4	104.5	112.3	104.5	87.1	71.6	54.2	42.6	38.7
60°	5501.9	3182.7	108.4	81.3	85.2	79.4	65.8	54.2	38.7	27.1	23.2
62.5°	5072.2	2768.4	83.2	63.9	62.0	62.0	50.3	40.7	27.1	15.5	13.6
65°	4162.3	2158.6	63.9	44.5	44.5	44.5	38.7	29.0	17.4	7.7	3.9
67.5°	2613.5	1256.4	52.3	34.8	32.9	32.9	27.1	19.4	9.7	1.9	0.0
70°	983.5	460.8	40.7	27.1	25.2	25.2	19.4	11.6	5.8	0.0	0.0
72°	338.8	176.2	32.9	19.4	19.4	17.4	13.6	9.7	3.9	0.0	0.0
72.5°	278.8	141.3	31.0	19.4	17.4	17.4	13.6	9.7	3.9	0.0	0.0
75°	100.7	58.1	21.3	13.6	11.6	11.6	9.7	5.8	1.9	0.0	0.0
77.5°	50.3	36.8	17.4	11.6	9.7	5.8	5.8	3.9	1.9	0.0	0.0
80°	31.0	23.2	9.7	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
82.5°	21.3	13.6	5.8	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0
85°	13.6	5.8	3.9	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	3.9	1.9	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)