

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: P483397

Luminaire Tested: **IFLD-S-SA6A-830-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483397
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-830-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

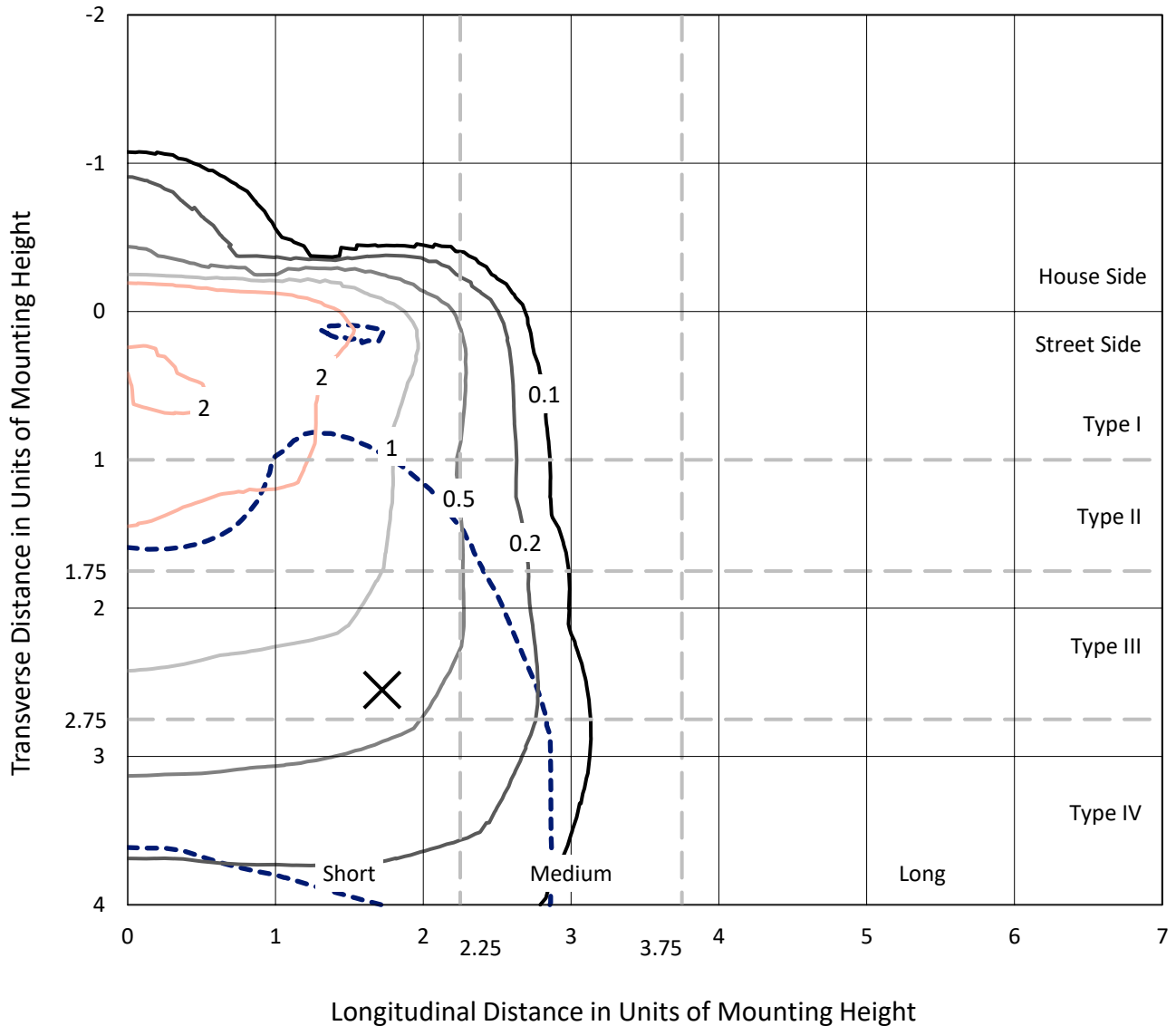
Lumens per Lamp: N/A
Luminaire Lumens: 15507.5 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

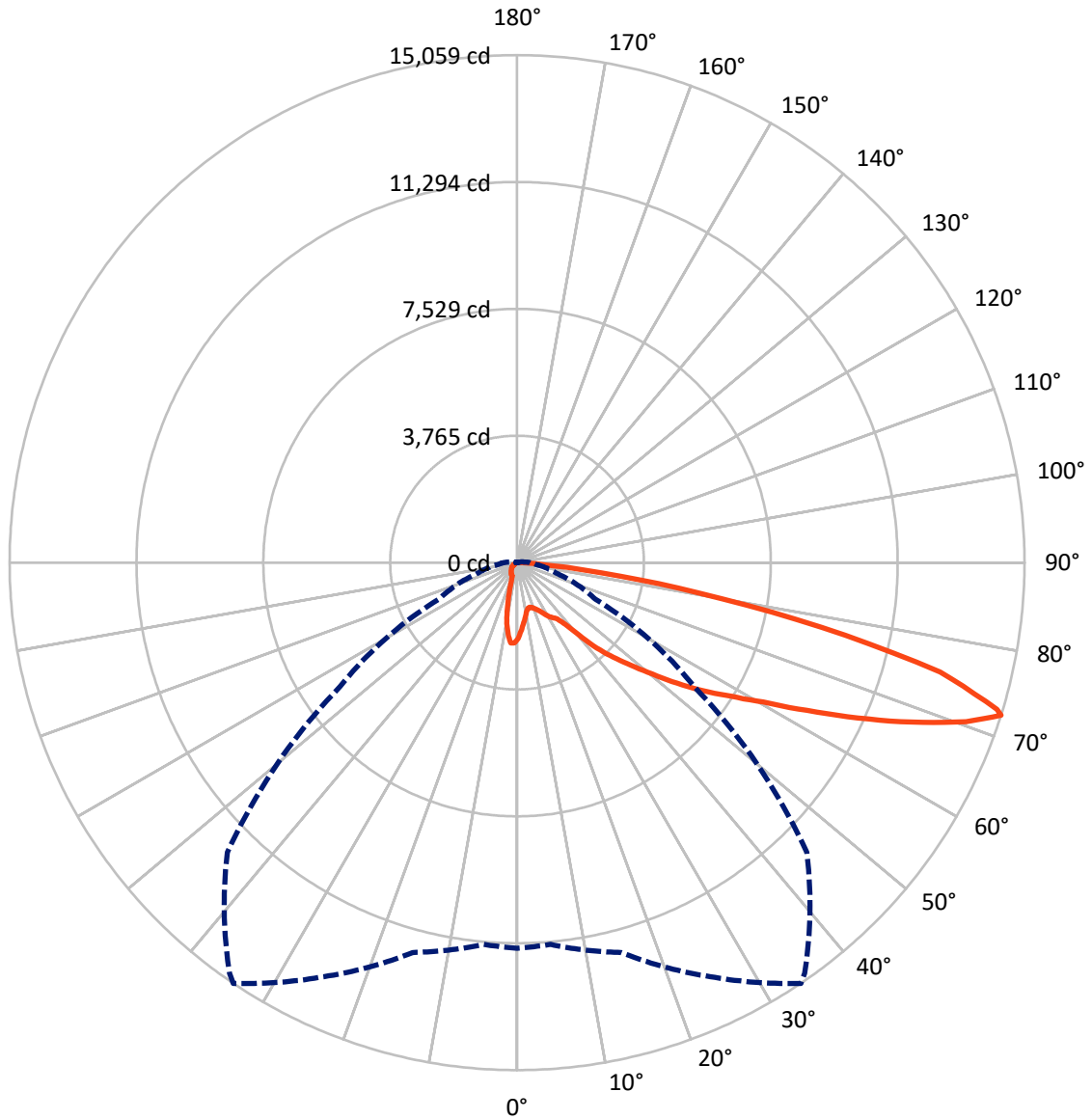
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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
House Side	Lumens	1587.6	0.0	1587.6
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	13919.9	0.0	13919.9
	% Fixture	89.8	0.0	89.8
Total	Lumens	15507.5	0.0	15507.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.9	1.3
10°-20°	445.9	2.9
20°-30°	673.0	4.3
30°-40°	1092.2	7.0
40°-50°	2053.8	13.2
50°-60°	3358.0	21.7
60°-70°	4464.0	28.8
70°-80°	2989.5	19.3
80°-90°	234.3	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°	15507.5	100.0
0°-180°	15507.5	100.0



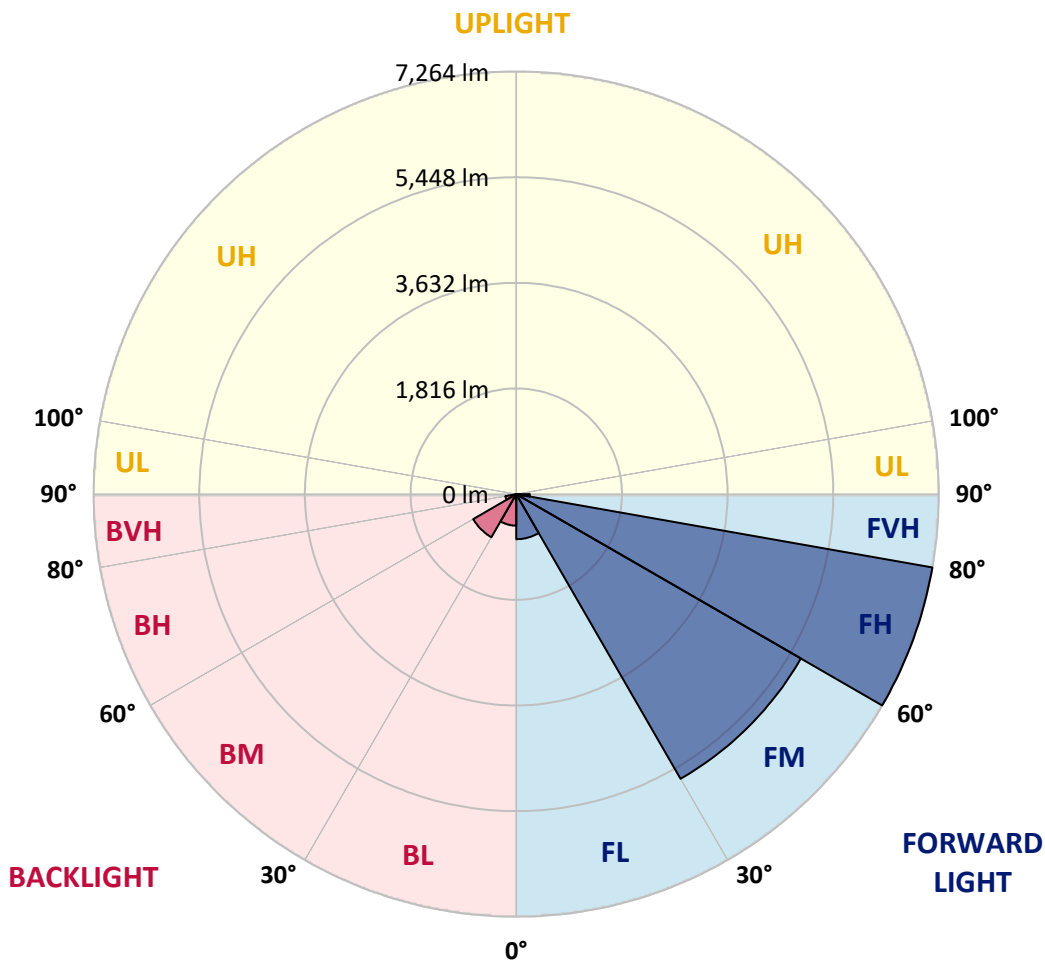
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	774.2	5.0			
FM (30°-60°)	5649.3	36.4			
FH (60°-80°)	7263.6	46.8			G3/7500
FVH (80°-90°)	232.8	1.5			G3/500
BL (0°-30°)	541.7	3.5	B2/1000		
BM (30°-60°)	854.6	5.5	B1/1000		
BH (60°-80°)	189.8	1.2	B1/500		G1/500
BVH (80°-90°)	1.5	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°	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8
2.5°	2006.5	2002.0	2015.4	2037.8	2060.3	2051.3	2093.9	2138.7	2170.1	2212.7	2264.3
5°	1753.1	1764.3	1777.8	1822.6	1851.8	1858.5	1937.0	1995.3	2091.7	2190.3	2282.2
7.5°	1522.2	1535.7	1562.6	1611.9	1672.4	1688.1	1766.6	1883.2	2008.7	2138.7	2288.9
10°	1354.1	1367.5	1396.7	1428.1	1508.8	1508.8	1616.4	1777.8	1941.4	2093.9	2291.2
12.5°	1318.2	1324.9	1322.7	1347.4	1398.9	1410.1	1515.5	1692.6	1883.2	2078.2	2327.0
15°	1360.8	1365.3	1342.9	1329.4	1374.3	1385.5	1484.1	1641.0	1845.0	2087.2	2385.3
17.5°	1446.0	1430.3	1385.5	1365.3	1403.4	1410.1	1502.0	1638.8	1840.6	2111.8	2452.6
20°	1495.3	1513.3	1434.8	1396.7	1450.5	1459.4	1558.1	1674.7	1863.0	2154.4	2546.7
22.5°	1582.7	1591.7	1486.4	1461.7	1513.3	1513.3	1625.3	1746.4	1916.8	2223.9	2658.8
25°	1706.1	1694.8	1571.5	1546.9	1596.2	1616.4	1728.5	1860.7	1999.7	2288.9	2762.0
27.5°	1802.5	1809.2	1708.3	1643.3	1726.2	1739.7	1860.7	1984.0	2062.5	2342.7	2887.5
30°	1945.9	1932.5	1824.9	1750.9	1854.0	1856.3	1972.8	2100.6	2183.6	2439.1	3075.8
32.5°	2116.3	2089.4	1966.1	1860.7	1943.7	1963.9	2082.7	2268.8	2371.9	2620.7	3367.3
35°	2477.3	2412.2	2210.5	2046.8	2053.5	2062.5	2246.3	2513.1	2631.9	2851.6	3757.3
37.5°	3004.1	2977.2	2748.5	2436.9	2318.1	2291.2	2497.4	2835.9	2983.9	3156.5	4264.0
40°	3526.4	3488.3	3275.4	3040.0	2824.7	2770.9	2874.1	3264.1	3398.7	3580.2	4784.1
42.5°	4107.1	4039.8	3788.7	3598.2	3463.7	3405.4	3365.0	3802.2	3954.6	4077.9	5293.0
45°	4694.4	4584.6	4221.4	4075.7	4004.0	3972.6	3968.1	4479.2	4571.1	4595.8	5858.0
47.5°	5210.1	5091.3	4761.7	4598.0	4544.2	4535.3	4786.4	5259.4	5187.7	5122.6	6487.9
50°	5606.9	5530.7	5293.0	5234.7	5194.4	5178.7	5766.1	6062.0	5730.2	5615.8	7041.7
52.5°	6221.1	6050.8	5781.7	5801.9	5943.2	5945.4	6759.2	6824.2	6180.8	5954.4	7564.0
55°	6712.1	6600.0	6380.3	6351.2	6723.3	6763.7	7649.2	7402.6	6431.9	6277.2	7756.8
57.5°	7290.5	7239.0	7079.8	7084.3	7474.3	7559.5	8440.6	7891.3	6640.4	6485.7	7786.0
60°	8126.7	7978.8	7895.8	7933.9	8393.5	8476.5	9207.3	8243.3	6741.3	6622.4	7714.2
62.5°	9050.4	8877.7	8788.1	8983.1	9653.4	9666.9	9790.2	8554.9	6678.5	6658.3	7252.4
65°	10162.3	9991.9	9920.2	10312.5	11108.4	11059.1	10608.5	8687.2	6479.0	6297.4	6039.6
67.5°	11269.8	11166.7	11018.7	11644.2	12635.1	12635.1	11458.1	8637.9	5956.6	5055.4	3950.1
70°	11794.4	11866.1	12101.5	13083.5	14134.9	14027.3	12296.6	8070.7	4434.4	2714.9	1553.6
72°	11444.7	11370.7	11978.2	13554.3	15058.5	14881.4	12155.3	6416.2	2562.4	1190.4	540.3
72.5°	10843.9	10913.4	11749.6	13489.2	14885.9	15031.6	11810.1	5918.5	2107.3	948.3	408.0
75°	6649.3	6768.2	8770.1	11453.6	12971.4	12807.7	9135.6	2820.3	809.3	403.5	145.7
77.5°	2427.9	2526.6	4255.0	7207.6	9225.2	9122.1	5286.3	1002.1	439.4	300.4	74.0
80°	632.2	683.8	1446.0	3324.7	5425.3	5432.0	2212.7	401.3	298.2	246.6	44.8
82.5°	125.5	139.0	443.9	1293.6	2535.5	2501.9	699.5	215.2	224.2	201.8	31.4
85°	15.7	20.2	94.2	439.4	820.5	735.3	172.6	107.6	165.9	156.9	20.2
87.5°	2.2	2.2	22.4	100.9	172.6	168.1	35.9	33.6	74.0	96.4	11.2
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°	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8	2268.8
2.5°	2293.4	2302.4	2333.8	2360.7	2392.1	2401.0	2387.6	2410.0	2378.6	2396.5	2401.0
5°	2297.9	2349.5	2407.8	2445.9	2436.9	2414.5	2396.5	2336.0	2293.4	2277.7	2311.4
7.5°	2329.3	2387.6	2450.3	2450.3	2401.0	2284.5	2172.4	2064.7	1975.1	1930.2	1968.3
10°	2369.6	2430.2	2495.2	2410.0	2226.2	2013.2	1854.0	1652.2	1515.5	1443.8	1450.5
12.5°	2423.4	2508.6	2531.1	2333.8	2028.9	1712.8	1423.6	1143.3	1013.3	910.2	912.4
15°	2492.9	2575.9	2508.6	2167.9	1777.8	1311.5	964.0	697.2	594.1	540.3	540.3
17.5°	2584.9	2647.6	2501.9	2015.4	1439.3	896.7	591.8	470.8	448.4	439.4	439.4
20°	2692.5	2739.5	2436.9	1777.8	1069.4	576.2	434.9	421.5	423.7	419.2	419.2
22.5°	2813.5	2829.2	2362.9	1502.0	724.1	426.0	405.8	408.0	410.3	405.8	408.0
25°	2941.3	2898.7	2255.3	1179.2	482.0	387.8	392.3	396.8	399.1	401.3	401.3
27.5°	3084.8	2999.6	2105.1	863.1	376.6	365.4	378.9	392.3	394.6	394.6	392.3
30°	3295.5	3154.3	1959.4	585.1	331.8	340.8	363.2	378.9	390.1	390.1	387.8
32.5°	3562.3	3315.7	1755.4	399.1	307.1	311.6	329.6	360.9	385.6	387.8	381.1
35°	3932.2	3510.7	1542.4	318.3	289.2	291.4	302.7	327.3	369.9	383.4	381.1
37.5°	4322.3	3732.7	1277.9	287.0	275.7	273.5	280.2	300.4	338.5	372.1	374.4
40°	4737.0	3965.8	999.9	271.3	264.5	260.1	262.3	271.3	300.4	343.0	352.0
42.5°	5127.1	4176.6	751.0	255.6	253.3	248.8	248.8	251.1	266.8	295.9	300.4
45°	5548.6	4349.2	571.7	244.4	237.6	239.9	230.9	226.4	237.6	239.9	237.6
47.5°	5943.2	4521.8	457.3	230.9	224.2	224.2	213.0	204.0	204.0	183.8	181.6
50°	6313.1	4616.0	365.4	213.0	210.7	208.5	192.8	177.1	163.7	139.0	134.5
52.5°	6620.2	4611.5	282.5	190.6	197.3	190.6	165.9	143.5	123.3	100.9	96.4
55°	6712.1	4396.3	213.0	156.9	168.1	159.2	132.3	112.1	89.7	71.7	69.5
57.5°	6633.6	4069.0	161.4	121.1	130.0	121.1	100.9	82.9	62.8	49.3	44.8
60°	6371.4	3685.6	125.5	94.2	98.6	91.9	76.2	62.8	44.8	31.4	26.9
62.5°	5873.7	3205.9	96.4	74.0	71.7	71.7	58.3	47.1	31.4	17.9	15.7
65°	4820.0	2499.7	74.0	51.6	51.6	51.6	44.8	33.6	20.2	9.0	4.5
67.5°	3026.5	1455.0	60.5	40.4	38.1	38.1	31.4	22.4	11.2	2.2	0.0
70°	1138.9	533.6	47.1	31.4	29.1	29.1	22.4	13.5	6.7	0.0	0.0
72°	392.3	204.0	38.1	22.4	22.4	20.2	15.7	11.2	4.5	0.0	0.0
72.5°	322.8	163.7	35.9	22.4	20.2	20.2	15.7	11.2	4.5	0.0	0.0
75°	116.6	67.3	24.7	15.7	13.5	13.5	11.2	6.7	2.2	0.0	0.0
77.5°	58.3	42.6	20.2	13.5	11.2	6.7	6.7	4.5	2.2	0.0	0.0
80°	35.9	26.9	11.2	9.0	6.7	4.5	2.2	2.2	0.0	0.0	0.0
82.5°	24.7	15.7	6.7	6.7	4.5	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.7	6.7	4.5	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	4.5	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)