

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: P483151

Luminaire Tested: **IFLD-S-SA3D-730-U-T4FT-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P483151
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT
distribution lens with House Side Shield
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

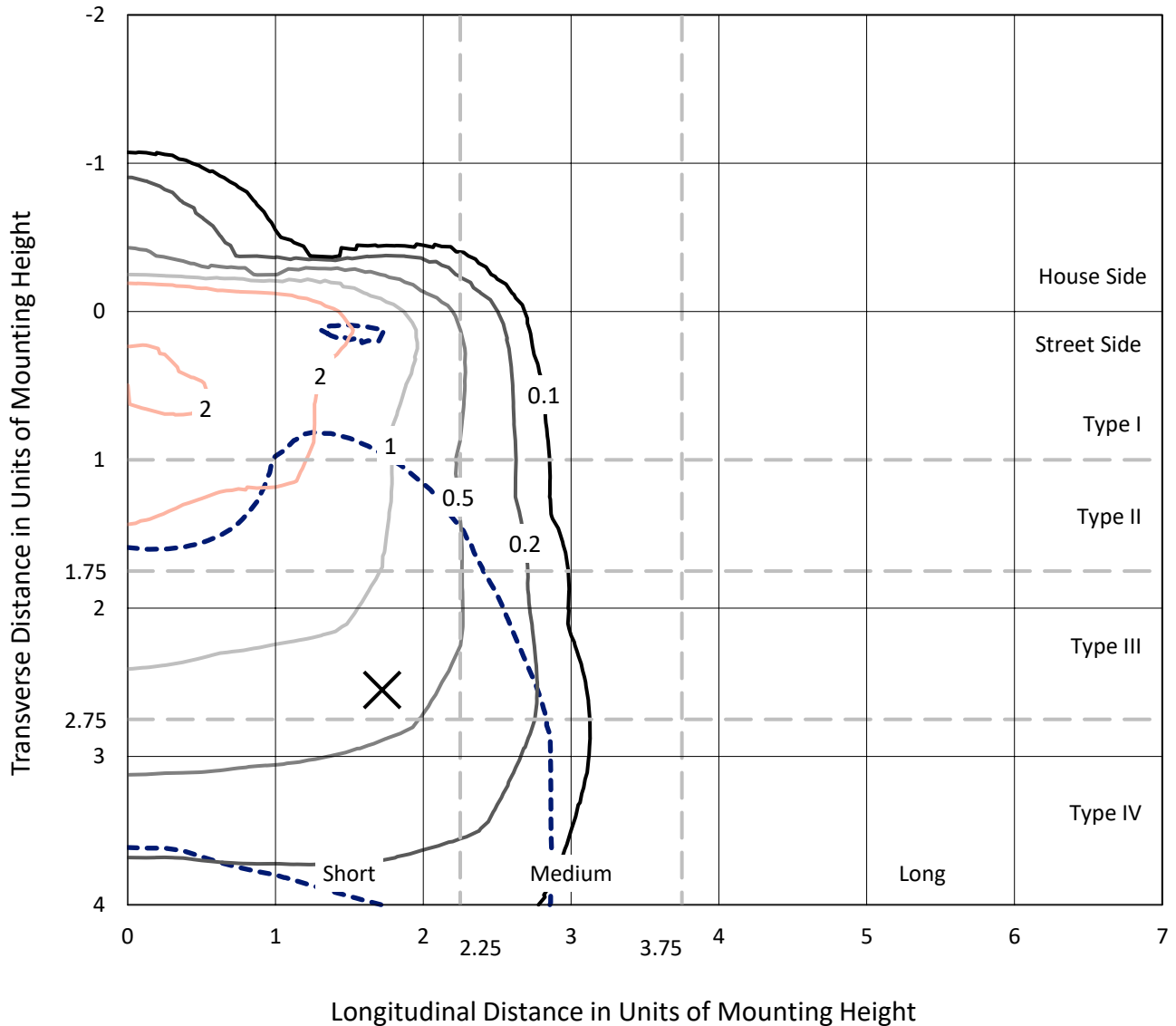
Lumens per Lamp: N/A
Luminaire Lumens: 15346.4 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 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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Iso-Footcandle Lines of Horizontal Illumination

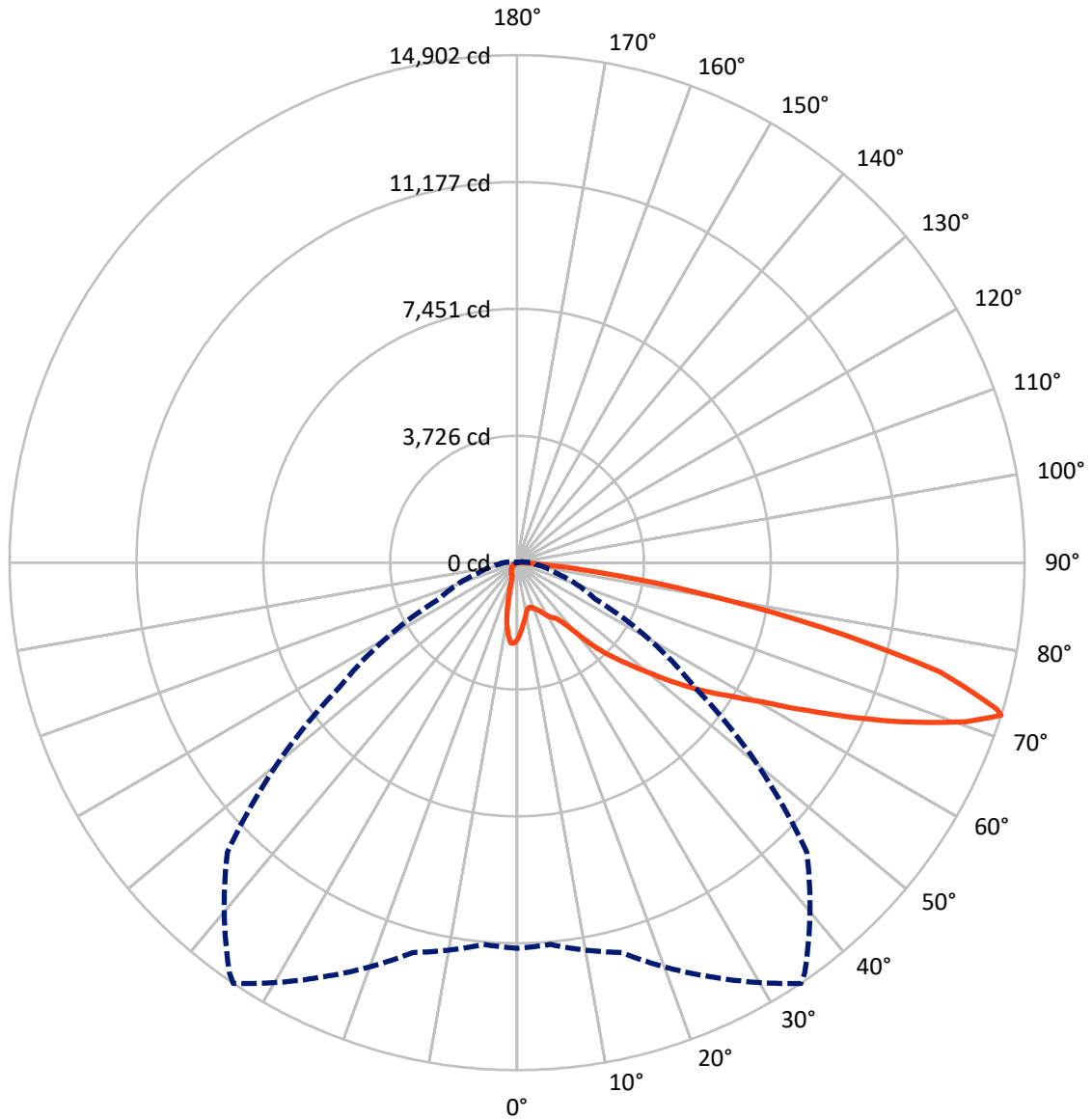
× Max cd
 - - - 1/2 Max cd



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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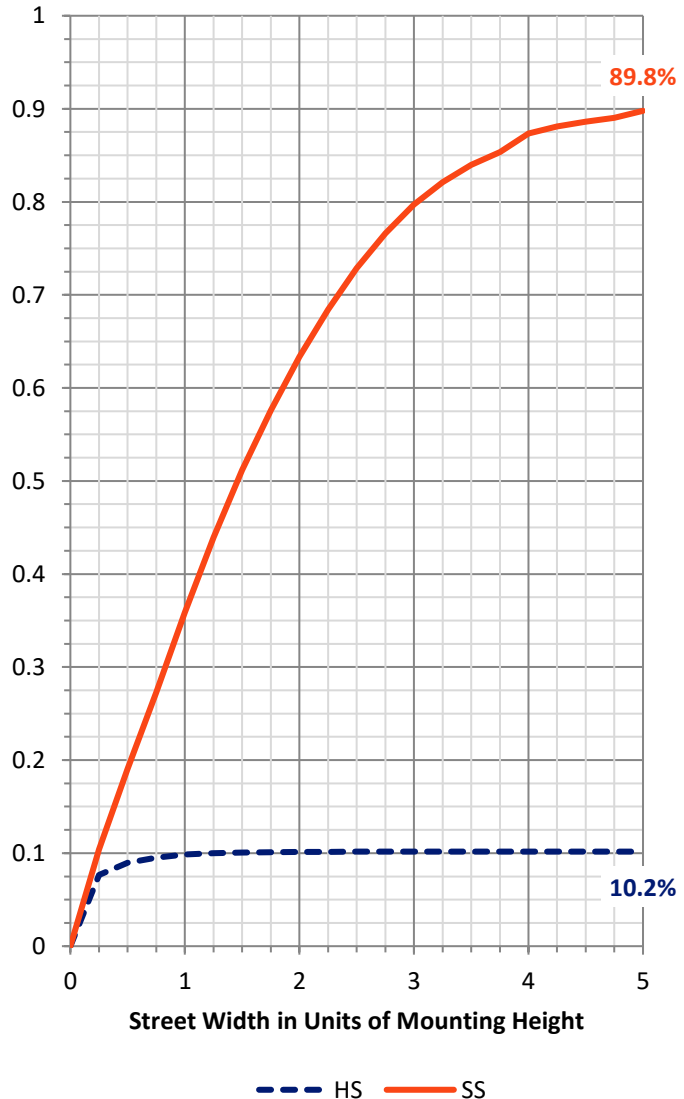
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.1	0.0	1571.1
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	13775.2	0.0	13775.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	15346.4	0.0	15346.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.9	1.3
10°-20°	441.3	2.9
20°-30°	666.0	4.3
30°-40°	1080.8	7.0
40°-50°	2032.4	13.2
50°-60°	3323.1	21.7
60°-70°	4417.6	28.8
70°-80°	2958.4	19.3
80°-90°	231.8	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°	15346.4	100.0
0°-180°	15346.4	100.0

Coefficient of Utilization



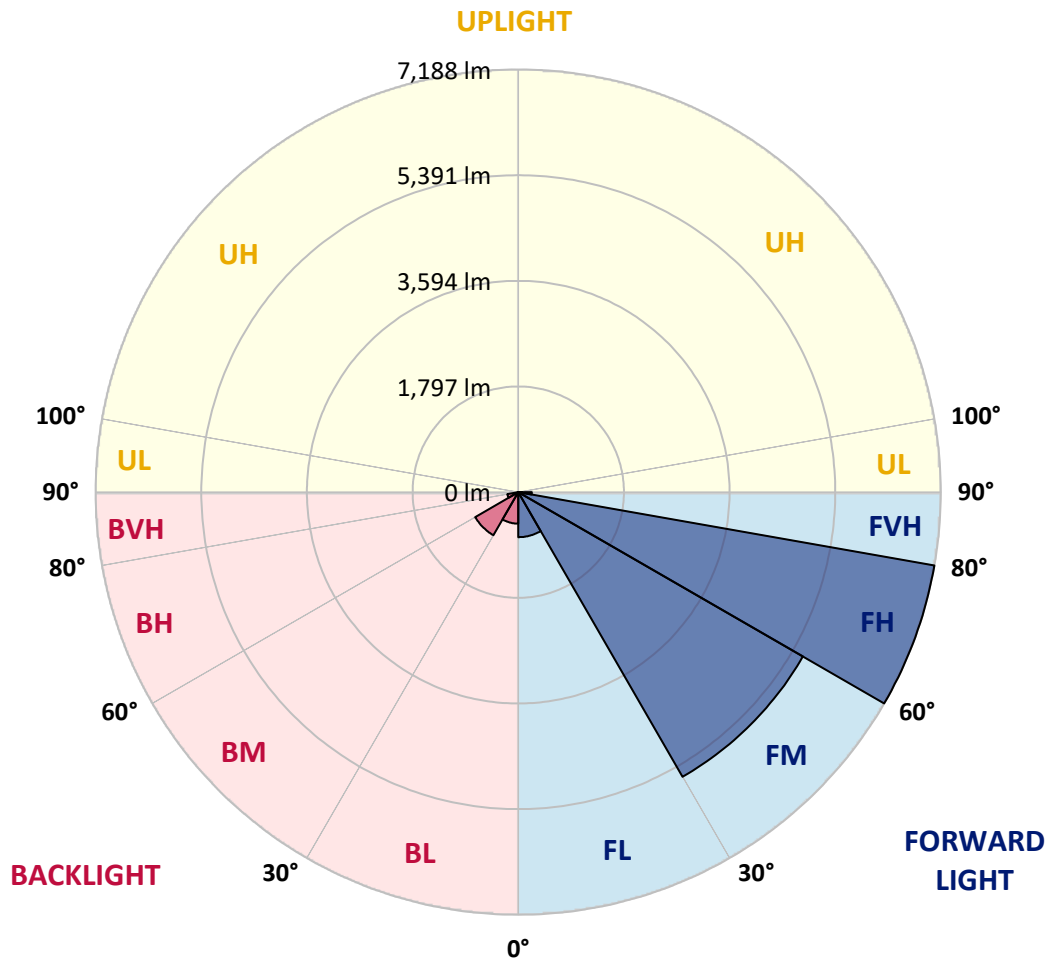
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	766.1	5.0			
FM (30°-60°)	5590.6	36.4			
FH (60°-80°)	7188.1	46.8			G3/7500
FVH (80°-90°)	230.4	1.5			G3/500
BL (0°-30°)	536.1	3.5	B2/1000		
BM (30°-60°)	845.7	5.5	B1/1000		
BH (60°-80°)	187.9	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°	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2
2.5°	1985.6	1981.2	1994.5	2016.7	2038.9	2030.0	2072.1	2116.5	2147.6	2189.7	2240.7
5°	1734.9	1746.0	1759.3	1803.7	1832.5	1839.2	1916.8	1974.5	2069.9	2167.5	2258.5
7.5°	1506.4	1519.7	1546.3	1595.1	1655.0	1670.6	1748.2	1863.6	1987.8	2116.5	2265.2
10°	1340.0	1353.3	1382.2	1413.2	1493.1	1493.1	1599.6	1759.3	1921.3	2072.1	2267.4
12.5°	1304.5	1311.2	1309.0	1333.4	1384.4	1395.5	1499.7	1675.0	1863.6	2056.6	2302.9
15°	1346.7	1351.1	1328.9	1315.6	1360.0	1371.1	1468.7	1624.0	1825.9	2065.5	2360.5
17.5°	1431.0	1415.4	1371.1	1351.1	1388.8	1395.5	1486.4	1621.8	1821.4	2089.9	2427.1
20°	1479.8	1497.5	1419.9	1382.2	1435.4	1444.3	1541.9	1657.3	1843.6	2132.0	2520.3
22.5°	1566.3	1575.2	1470.9	1446.5	1497.5	1497.5	1608.5	1728.3	1896.9	2200.8	2631.2
25°	1688.3	1677.2	1555.2	1530.8	1579.6	1599.6	1710.5	1841.4	1979.0	2265.2	2733.3
27.5°	1783.7	1790.4	1690.5	1626.2	1708.3	1721.6	1841.4	1963.4	2041.1	2318.4	2857.5
30°	1925.7	1912.4	1805.9	1732.7	1834.7	1837.0	1952.3	2078.8	2160.9	2413.8	3043.9
32.5°	2094.3	2067.7	1945.7	1841.4	1923.5	1943.5	2061.0	2245.2	2347.2	2593.5	3332.3
35°	2451.5	2387.2	2187.5	2025.5	2032.2	2041.1	2223.0	2487.0	2604.6	2822.0	3718.3
37.5°	2972.9	2946.2	2720.0	2411.6	2294.0	2267.4	2471.5	2806.5	2952.9	3123.7	4219.7
40°	3489.8	3452.1	3241.3	3008.4	2795.4	2742.1	2844.2	3230.2	3363.3	3543.0	4734.4
42.5°	4064.4	3997.8	3749.4	3560.8	3427.7	3370.0	3330.1	3762.7	3913.5	4035.6	5238.0
45°	4645.7	4537.0	4177.5	4033.3	3962.3	3931.3	3926.9	4432.7	4523.6	4548.0	5797.1
47.5°	5155.9	5038.4	4712.2	4550.3	4497.0	4488.1	4736.6	5204.7	5133.7	5069.4	6420.5
50°	5548.6	5473.2	5238.0	5180.3	5140.4	5124.9	5706.1	5999.0	5670.6	5557.5	6968.5
52.5°	6156.5	5987.9	5721.7	5741.6	5881.4	5883.6	6689.0	6753.3	6116.6	5892.5	7485.4
55°	6642.4	6531.4	6314.0	6285.2	6653.5	6693.4	7569.7	7325.7	6365.1	6212.0	7676.2
57.5°	7214.8	7163.7	7006.2	7010.7	7396.7	7481.0	8352.9	7809.3	6571.4	6418.3	7705.1
60°	8042.3	7895.9	7813.8	7851.5	8306.3	8388.4	9111.6	8157.6	6671.2	6553.6	7634.1
62.5°	8956.3	8785.5	8696.8	8889.8	9553.1	9566.4	9688.5	8466.0	6609.1	6589.1	7177.0
65°	10056.7	9888.1	9817.1	10205.4	10993.0	10944.2	10498.2	8596.9	6411.6	6231.9	5976.8
67.5°	11152.7	11050.7	10904.2	11523.2	12503.8	12503.8	11339.1	8548.1	5894.7	5002.9	3909.1
70°	11671.8	11742.8	11975.8	12947.5	13988.0	13881.5	12168.8	7986.8	4388.3	2686.7	1537.5
72°	11325.8	11252.5	11853.8	13413.4	14902.1	14726.8	12029.0	6349.5	2535.8	1178.1	534.7
72.5°	10731.2	10800.0	11627.5	13349.1	14731.2	14875.4	11687.4	5857.0	2085.4	938.5	403.8
75°	6580.3	6697.8	8679.0	11334.6	12836.6	12674.6	9040.6	2790.9	800.9	399.3	144.2
77.5°	2402.7	2500.3	4210.8	7132.7	9129.4	9027.3	5231.4	991.7	434.8	297.3	73.2
80°	625.6	676.7	1431.0	3290.1	5368.9	5375.6	2189.7	397.1	295.1	244.0	44.4
82.5°	124.2	137.6	439.3	1280.1	2509.2	2475.9	692.2	213.0	221.9	199.7	31.1
85°	15.5	20.0	93.2	434.8	812.0	727.7	170.8	106.5	164.2	155.3	20.0
87.5°	2.2	2.2	22.2	99.8	170.8	166.4	35.5	33.3	73.2	95.4	11.1
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°	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2	2245.2
2.5°	2269.6	2278.5	2309.5	2336.1	2367.2	2376.1	2362.8	2385.0	2353.9	2371.6	2376.1
5°	2274.0	2325.1	2382.7	2420.4	2411.6	2389.4	2371.6	2311.7	2269.6	2254.1	2287.3
7.5°	2305.1	2362.8	2424.9	2424.9	2376.1	2260.7	2149.8	2043.3	1954.6	1910.2	1947.9
10°	2345.0	2404.9	2469.3	2385.0	2203.0	1992.3	1834.7	1635.1	1499.7	1428.8	1435.4
12.5°	2398.3	2482.6	2504.8	2309.5	2007.8	1695.0	1408.8	1131.5	1002.8	900.7	903.0
15°	2467.0	2549.1	2482.6	2145.3	1759.3	1297.9	954.0	690.0	587.9	534.7	534.7
17.5°	2558.0	2620.1	2475.9	1994.5	1424.3	887.4	585.7	465.9	443.7	434.8	434.8
20°	2664.5	2711.1	2411.6	1759.3	1058.3	570.2	430.4	417.1	419.3	414.9	414.9
22.5°	2784.3	2799.8	2338.4	1486.4	716.6	421.5	401.6	403.8	406.0	401.6	403.8
25°	2910.8	2868.6	2231.9	1167.0	477.0	383.8	388.2	392.7	394.9	397.1	397.1
27.5°	3052.7	2968.4	2083.2	854.1	372.7	361.6	374.9	388.2	390.5	390.5	388.2
30°	3261.3	3121.5	1939.0	579.0	328.3	337.2	359.4	374.9	386.0	386.0	383.8
32.5°	3525.3	3281.3	1737.1	394.9	303.9	308.4	326.1	357.2	381.6	383.8	377.2
35°	3891.4	3474.3	1526.4	315.0	286.2	288.4	299.5	323.9	366.1	379.4	377.2
37.5°	4277.4	3693.9	1264.6	284.0	272.9	270.7	277.3	297.3	335.0	368.3	370.5
40°	4687.8	3924.6	989.5	268.4	261.8	257.4	259.6	268.4	297.3	339.4	348.3
42.5°	5073.8	4133.2	743.2	252.9	250.7	246.3	246.3	248.5	264.0	292.8	297.3
45°	5490.9	4304.0	565.7	241.8	235.2	237.4	228.5	224.1	235.2	237.4	235.2
47.5°	5881.4	4474.8	452.6	228.5	221.9	221.9	210.8	201.9	201.9	181.9	179.7
50°	6247.5	4568.0	361.6	210.8	208.5	206.3	190.8	175.3	162.0	137.6	133.1
52.5°	6551.4	4563.6	279.5	188.6	195.2	188.6	164.2	142.0	122.0	99.8	95.4
55°	6642.4	4350.6	210.8	155.3	166.4	157.5	130.9	110.9	88.7	71.0	68.8
57.5°	6564.7	4026.7	159.7	119.8	128.7	119.8	99.8	82.1	62.1	48.8	44.4
60°	6305.1	3647.3	124.2	93.2	97.6	91.0	75.4	62.1	44.4	31.1	26.6
62.5°	5812.6	3172.5	95.4	73.2	71.0	71.0	57.7	46.6	31.1	17.7	15.5
65°	4769.9	2473.7	73.2	51.0	51.0	51.0	44.4	33.3	20.0	8.9	4.4
67.5°	2995.1	1439.8	59.9	39.9	37.7	37.7	31.1	22.2	11.1	2.2	0.0
70°	1127.0	528.0	46.6	31.1	28.8	28.8	22.2	13.3	6.7	0.0	0.0
72°	388.2	201.9	37.7	22.2	22.2	20.0	15.5	11.1	4.4	0.0	0.0
72.5°	319.5	162.0	35.5	22.2	20.0	20.0	15.5	11.1	4.4	0.0	0.0
75°	115.4	66.6	24.4	15.5	13.3	13.3	11.1	6.7	2.2	0.0	0.0
77.5°	57.7	42.2	20.0	13.3	11.1	6.7	6.7	4.4	2.2	0.0	0.0
80°	35.5	26.6	11.1	8.9	6.7	4.4	2.2	2.2	0.0	0.0	0.0
82.5°	24.4	15.5	6.7	6.7	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	15.5	6.7	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	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)