

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: P483247

Luminaire Tested: **IFLD-M-SA4B-740-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483247
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

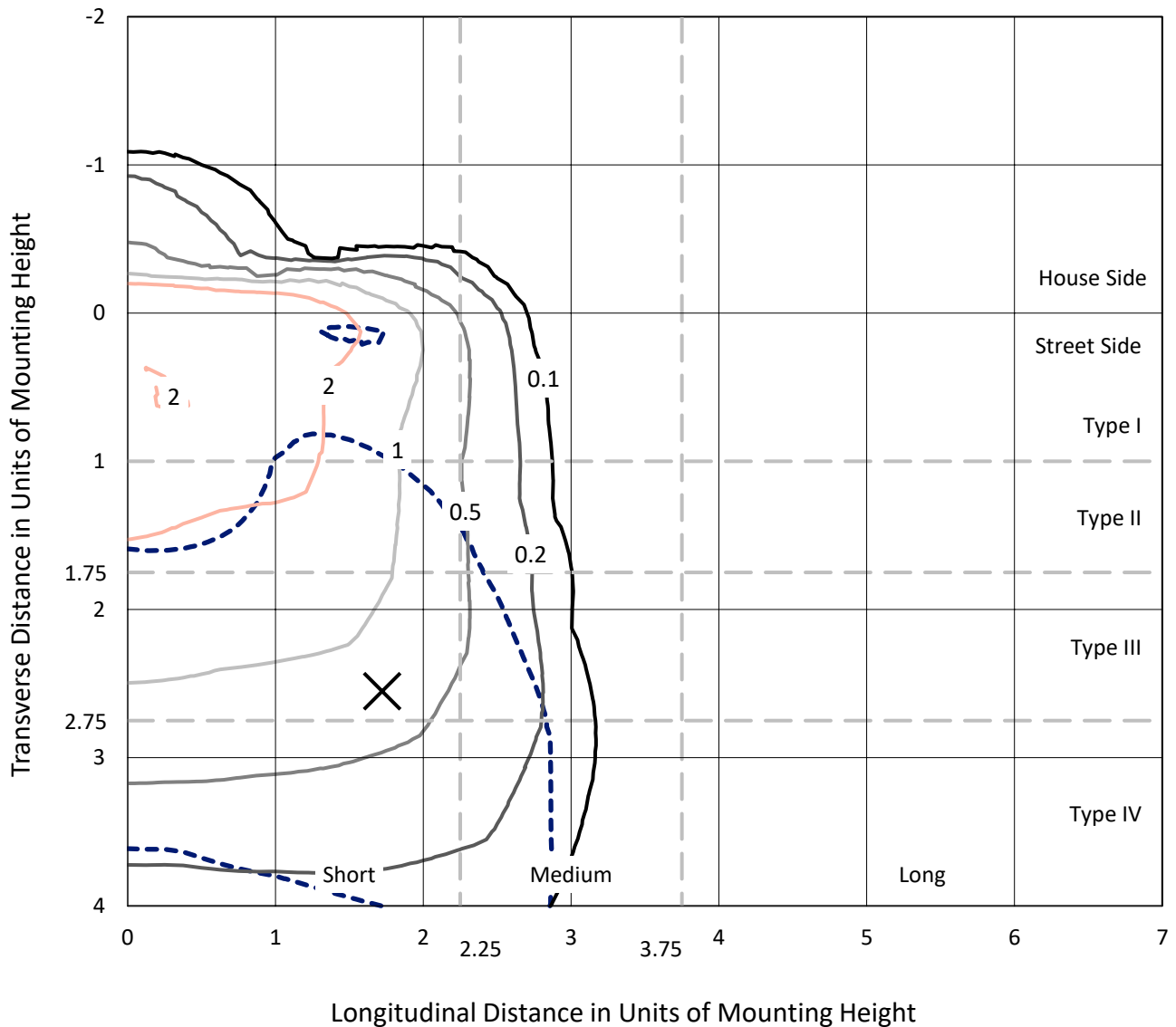
Lumens per Lamp: N/A
Luminaire Lumens: 16514.9 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 166.1
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

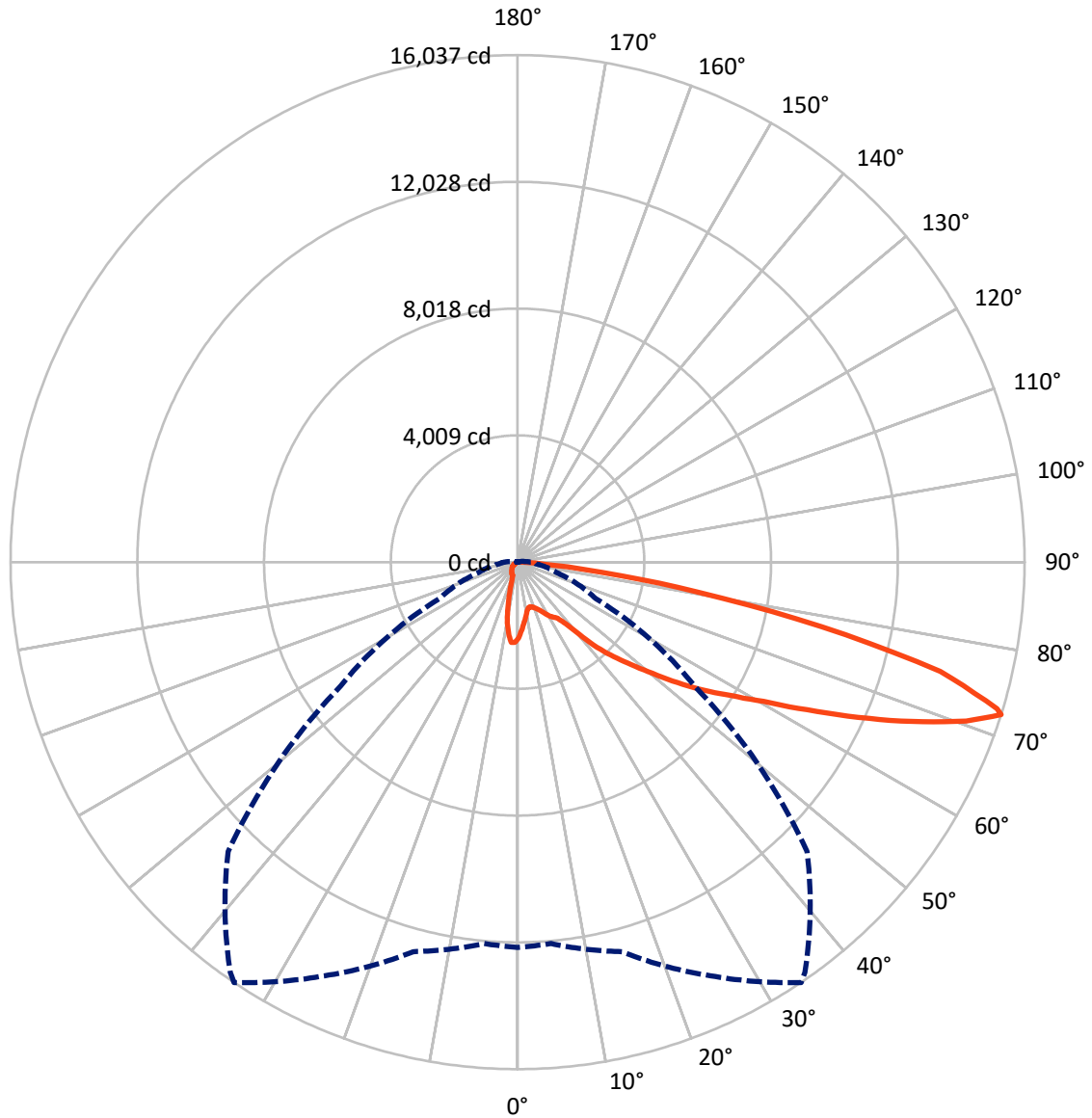
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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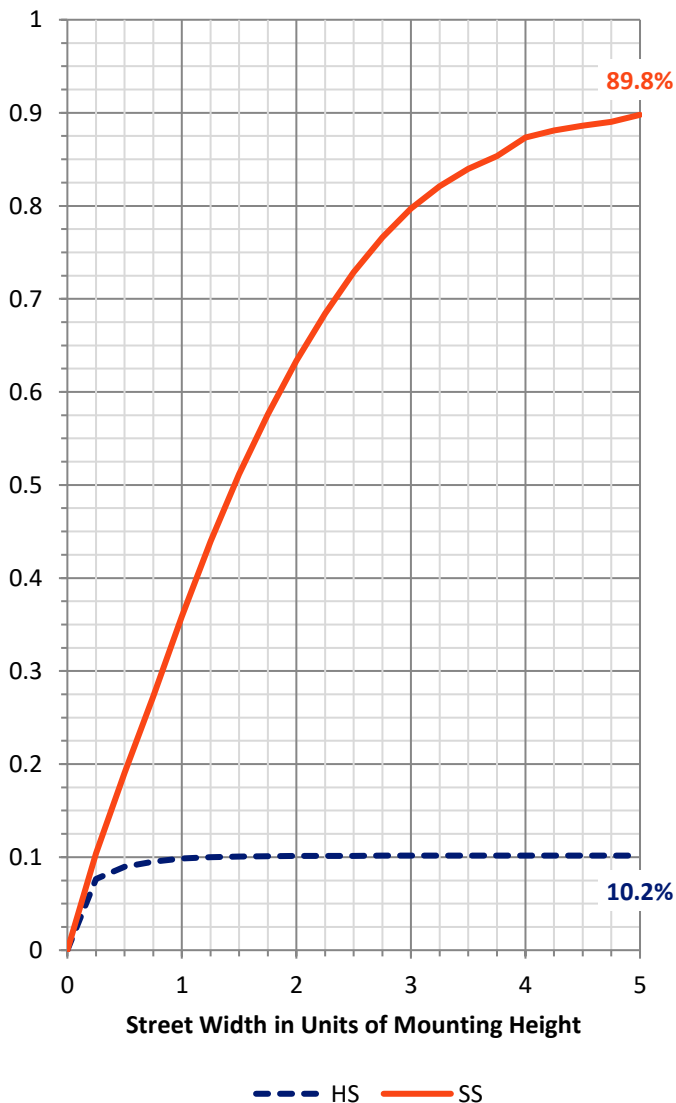
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.7	0.0	1690.7
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	14824.2	0.0	14824.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	16514.9	0.0	16514.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.3
10°-20°	474.9	2.9
20°-30°	716.7	4.3
30°-40°	1163.1	7.0
40°-50°	2187.2	13.2
50°-60°	3576.1	21.7
60°-70°	4753.9	28.8
70°-80°	3183.7	19.3
80°-90°	249.5	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°	16514.9	100.0
0°-180°	16514.9	100.0

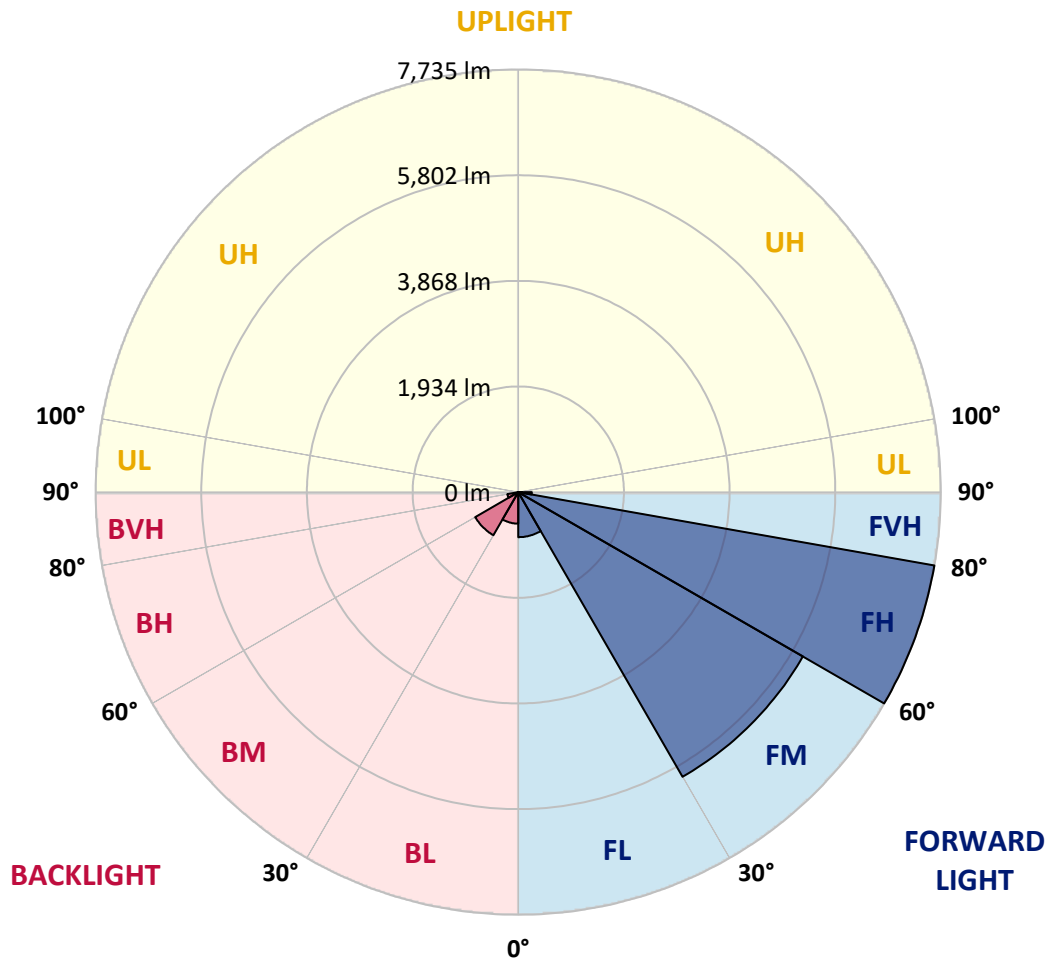


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.5	5.0			
FM (30°-60°)	6016.4	36.4			
FH (60°-80°)	7735.5	46.8			G4/12000
FVH (80°-90°)	247.9	1.5			G3/500
BL (0°-30°)	576.9	3.5	B2/1000		
BM (30°-60°)	910.1	5.5	B1/1000		
BH (60°-80°)	202.2	1.2	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: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1
2.5°	2136.8	2132.0	2146.4	2170.2	2194.1	2184.6	2229.9	2277.7	2311.1	2356.5	2411.4
5°	1867.0	1879.0	1893.3	1941.0	1972.1	1979.2	2062.8	2124.9	2227.5	2332.6	2430.5
7.5°	1621.1	1635.4	1664.1	1716.6	1781.1	1797.8	1881.3	2005.5	2139.2	2277.7	2437.6
10°	1442.0	1456.4	1487.4	1520.8	1606.8	1606.8	1721.4	1893.3	2067.6	2229.9	2440.0
12.5°	1403.8	1411.0	1408.6	1434.9	1489.8	1501.7	1613.9	1802.6	2005.5	2213.2	2478.2
15°	1449.2	1454.0	1430.1	1415.8	1463.5	1475.5	1580.5	1747.6	1964.9	2222.8	2540.3
17.5°	1539.9	1523.2	1475.5	1454.0	1494.6	1501.7	1599.6	1745.3	1960.1	2249.0	2611.9
20°	1592.5	1611.6	1528.0	1487.4	1544.7	1554.3	1659.3	1783.5	1984.0	2294.4	2712.2
22.5°	1685.6	1695.1	1582.9	1556.6	1611.6	1611.6	1730.9	1859.9	2041.3	2368.4	2831.6
25°	1816.9	1804.9	1673.6	1647.4	1699.9	1721.4	1840.8	1981.6	2129.6	2437.6	2941.4
27.5°	1919.5	1926.7	1819.3	1750.0	1838.4	1852.7	1981.6	2112.9	2196.5	2494.9	3075.1
30°	2072.3	2058.0	1943.4	1864.6	1974.5	1976.8	2101.0	2237.1	2325.4	2597.6	3275.6
32.5°	2253.8	2225.1	2093.8	1981.6	2070.0	2091.4	2218.0	2416.1	2526.0	2791.0	3586.0
35°	2638.2	2568.9	2354.1	2179.8	2186.9	2196.5	2392.3	2676.4	2802.9	3036.9	4001.4
37.5°	3199.2	3170.6	2927.1	2595.2	2468.7	2440.0	2659.7	3020.2	3177.8	3361.6	4541.0
40°	3755.5	3714.9	3488.1	3237.4	3008.2	2950.9	3060.8	3476.2	3619.4	3812.8	5094.9
42.5°	4373.9	4302.3	4034.9	3831.9	3688.7	3626.6	3583.6	4049.2	4211.5	4342.9	5636.9
45°	4999.4	4882.4	4495.7	4340.5	4264.1	4230.6	4225.9	4770.2	4868.1	4894.4	6238.5
47.5°	5548.5	5422.0	5071.0	4896.8	4839.5	4829.9	5097.3	5601.1	5524.7	5455.4	6909.4
50°	5971.1	5890.0	5636.9	5574.8	5531.8	5515.1	6140.6	6455.8	6102.4	5980.7	7499.1
52.5°	6625.3	6443.9	6157.4	6178.8	6329.3	6331.6	7198.3	7267.5	6582.3	6341.2	8055.4
55°	7148.2	7028.8	6794.8	6763.8	7160.1	7203.1	8146.1	7883.5	6849.7	6685.0	8260.7
57.5°	7764.1	7709.2	7539.7	7544.5	7959.9	8050.6	8988.9	8404.0	7071.8	6907.0	8291.8
60°	8654.7	8497.1	8408.8	8449.3	8938.8	9027.1	9805.4	8778.8	7179.2	7052.7	8215.4
62.5°	9638.3	9454.5	9359.0	9566.7	10280.6	10294.9	10426.2	9110.7	7112.3	7090.9	7723.5
65°	10822.5	10641.1	10564.7	10982.5	11830.0	11777.5	11297.6	9251.5	6899.9	6706.5	6431.9
67.5°	12001.9	11892.1	11734.5	12400.7	13455.9	13455.9	12202.5	9199.0	6343.6	5383.8	4206.8
70°	12560.6	12637.0	12887.7	13933.4	15053.2	14938.6	13095.4	8595.0	4722.5	2891.3	1654.5
72°	12188.2	12109.4	12756.4	14434.8	16036.8	15848.2	12945.0	6833.0	2728.9	1267.8	575.4
72.5°	11548.3	11622.3	12512.9	14365.6	15853.0	16008.2	12577.3	6303.0	2244.2	1009.9	434.5
75°	7081.3	7207.8	9339.9	12197.7	13814.1	13639.8	9729.0	3003.5	861.9	429.7	155.2
77.5°	2585.7	2690.7	4531.5	7675.8	9824.5	9714.7	5629.7	1067.2	467.9	319.9	78.8
80°	673.3	728.2	1539.9	3540.7	5777.7	5784.9	2356.5	427.4	317.5	262.6	47.7
82.5°	133.7	148.0	472.7	1377.6	2700.3	2664.4	744.9	229.2	238.7	214.9	33.4
85°	16.7	21.5	100.3	467.9	873.8	783.1	183.8	114.6	176.7	167.1	21.5
87.5°	2.4	2.4	23.9	107.4	183.8	179.1	38.2	35.8	78.8	102.7	11.9
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°	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1	2416.1
2.5°	2442.4	2452.0	2485.4	2514.0	2547.5	2557.0	2542.7	2566.6	2533.1	2552.2	2557.0
5°	2447.2	2502.1	2564.2	2604.8	2595.2	2571.3	2552.2	2487.8	2442.4	2425.7	2461.5
7.5°	2480.6	2542.7	2609.5	2609.5	2557.0	2432.9	2313.5	2198.9	2103.4	2055.6	2096.2
10°	2523.6	2588.0	2657.3	2566.6	2370.8	2144.0	1974.5	1759.6	1613.9	1537.5	1544.7
12.5°	2580.9	2671.6	2695.5	2485.4	2160.7	1824.0	1516.1	1217.6	1079.1	969.3	971.7
15°	2654.9	2743.2	2671.6	2308.7	1893.3	1396.7	1026.6	742.5	632.7	575.4	575.4
17.5°	2752.8	2819.6	2664.4	2146.4	1532.8	955.0	630.3	501.4	477.5	467.9	467.9
20°	2867.4	2917.5	2595.2	1893.3	1138.8	613.6	463.2	448.8	451.2	446.5	446.5
22.5°	2996.3	3013.0	2516.4	1599.6	771.2	453.6	432.1	434.5	436.9	432.1	434.5
25°	3132.4	3087.0	2401.8	1255.8	513.3	413.0	417.8	422.6	425.0	427.4	427.4
27.5°	3285.2	3194.5	2241.9	919.2	401.1	389.2	403.5	417.8	420.2	420.2	417.8
30°	3509.6	3359.2	2086.7	623.1	353.3	362.9	386.8	403.5	415.4	415.4	413.0
32.5°	3793.7	3531.1	1869.4	425.0	327.1	331.9	351.0	384.4	410.6	413.0	405.9
35°	4187.7	3738.8	1642.6	339.0	308.0	310.4	322.3	348.6	393.9	408.3	405.9
37.5°	4603.1	3975.2	1360.9	305.6	293.7	291.3	298.4	319.9	360.5	396.3	398.7
40°	5044.8	4223.5	1064.8	288.9	281.7	276.9	279.3	288.9	319.9	365.3	374.8
42.5°	5460.2	4447.9	799.8	272.2	269.8	265.0	265.0	267.4	284.1	315.1	319.9
45°	5909.1	4631.7	608.8	260.2	253.1	255.5	245.9	241.1	253.1	255.5	253.1
47.5°	6329.3	4815.6	487.0	245.9	238.7	238.7	226.8	217.3	217.3	195.8	193.4
50°	6723.2	4915.9	389.2	226.8	224.4	222.0	205.3	188.6	174.3	148.0	143.2
52.5°	7050.3	4911.1	300.8	202.9	210.1	202.9	176.7	152.8	131.3	107.4	102.7
55°	7148.2	4681.9	226.8	167.1	179.1	169.5	140.9	119.4	95.5	76.4	74.0
57.5°	7064.6	4333.3	171.9	128.9	138.5	128.9	107.4	88.3	66.8	52.5	47.7
60°	6785.3	3925.0	133.7	100.3	105.0	97.9	81.2	66.8	47.7	33.4	28.6
62.5°	6255.2	3414.1	102.7	78.8	76.4	76.4	62.1	50.1	33.4	19.1	16.7
65°	5133.1	2662.1	78.8	54.9	54.9	54.9	47.7	35.8	21.5	9.5	4.8
67.5°	3223.1	1549.5	64.5	43.0	40.6	40.6	33.4	23.9	11.9	2.4	0.0
70°	1212.8	568.2	50.1	33.4	31.0	31.0	23.9	14.3	7.2	0.0	0.0
72°	417.8	217.3	40.6	23.9	23.9	21.5	16.7	11.9	4.8	0.0	0.0
72.5°	343.8	174.3	38.2	23.9	21.5	21.5	16.7	11.9	4.8	0.0	0.0
75°	124.1	71.6	26.3	16.7	14.3	14.3	11.9	7.2	2.4	0.0	0.0
77.5°	62.1	45.4	21.5	14.3	11.9	7.2	7.2	4.8	2.4	0.0	0.0
80°	38.2	28.6	11.9	9.5	7.2	4.8	2.4	2.4	0.0	0.0	0.0
82.5°	26.3	16.7	7.2	7.2	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	16.7	7.2	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.2	4.8	2.4	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)