

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: P483013

Luminaire Tested: **IFLD-M-SA4B-830-U-T3R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483013
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-830-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

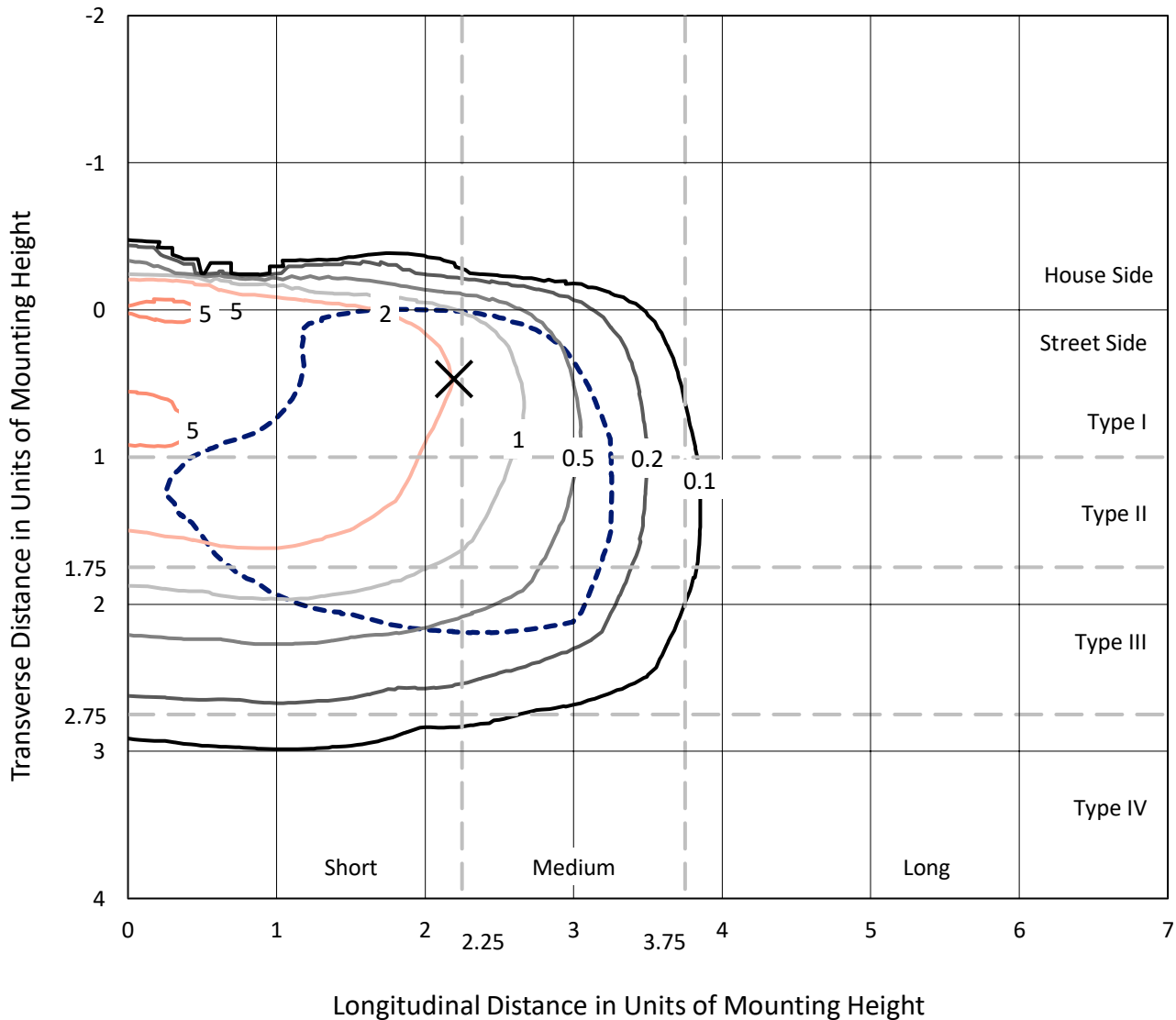
Lumens per Lamp: N/A
Luminaire Lumens: 13009 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

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

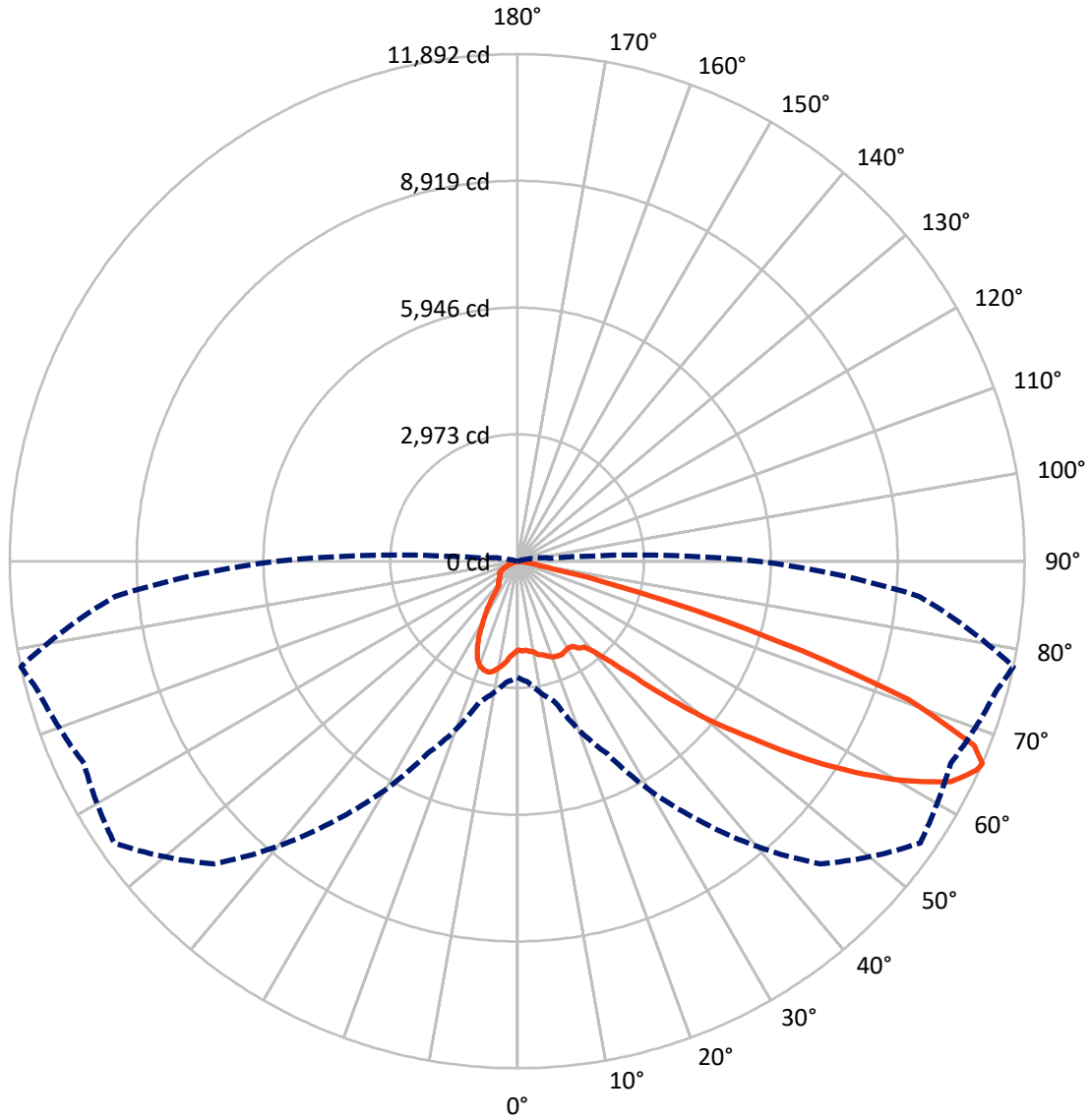
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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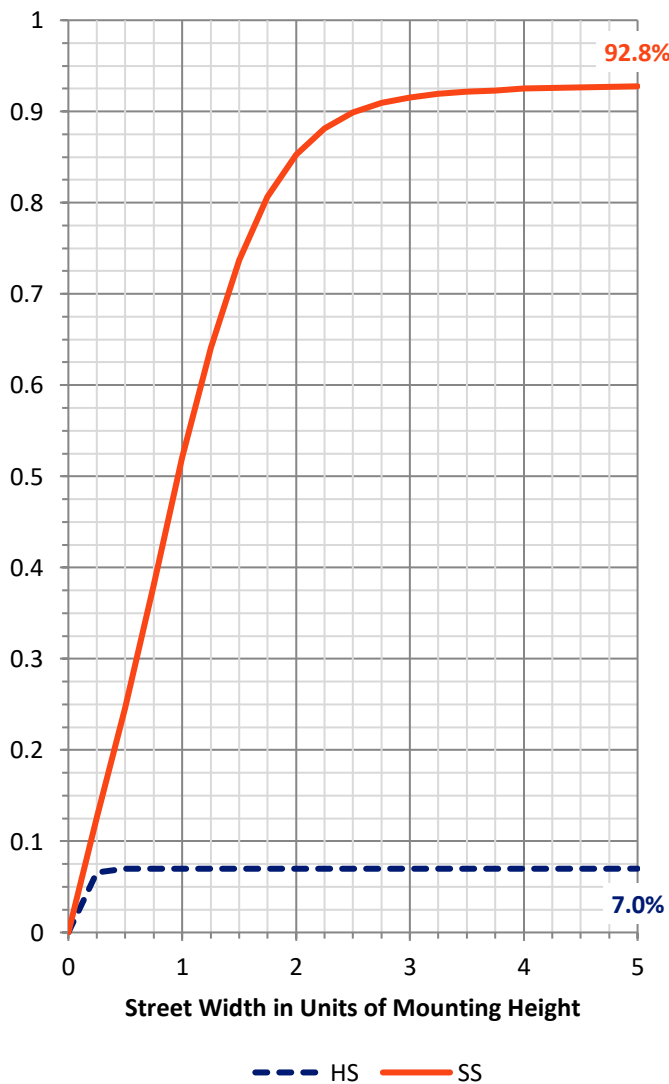
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	914.6	0.0	914.6
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	12094.4	0.0	12094.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	13009.0	0.0	13009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.6	1.5
10°-20°	430.3	3.3
20°-30°	615.0	4.7
30°-40°	1052.8	8.1
40°-50°	1900.1	14.6
50°-60°	3249.5	25.0
60°-70°	3999.5	30.7
70°-80°	1512.0	11.6
80°-90°	59.1	0.5
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°	13009.0	100.0
0°-180°	13009.0	100.0

Coefficient of Utilization

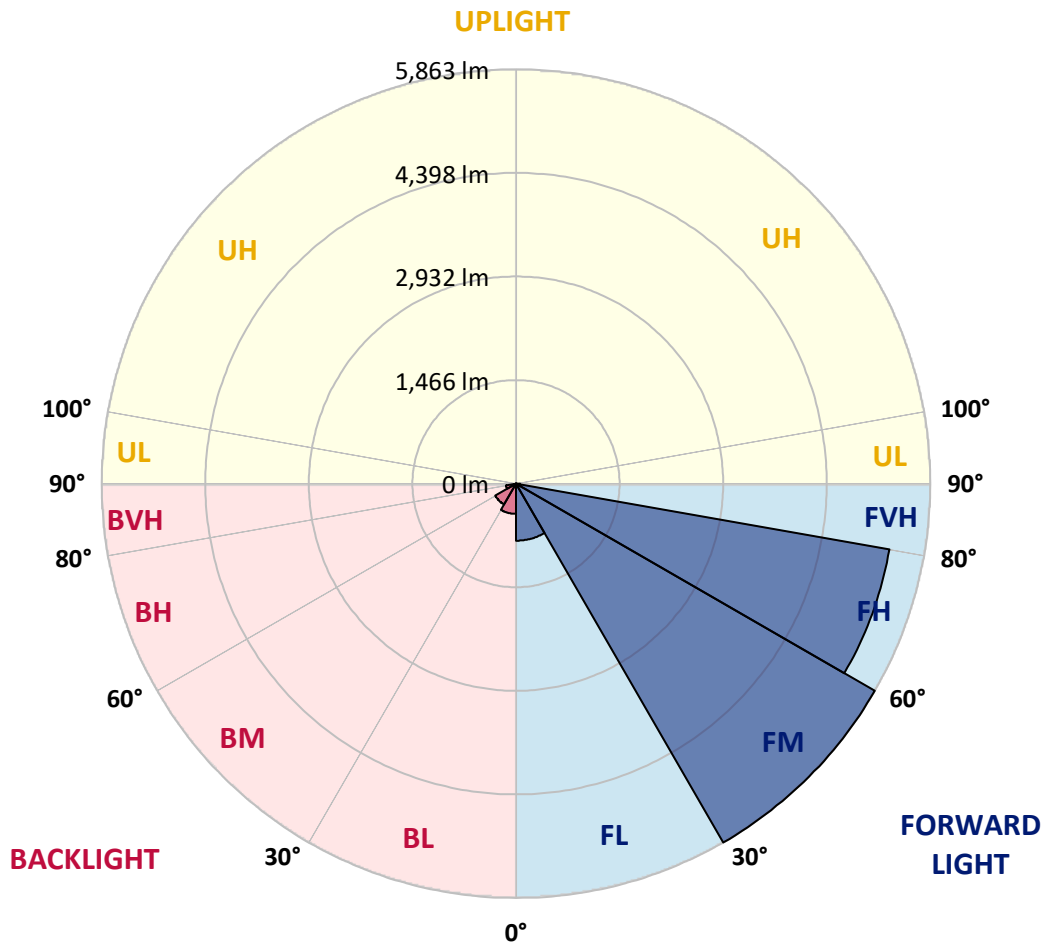


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	807.6	6.2			
FM (30°-60°)	5863.4	45.1			
FH (60°-80°)	5366.7	41.3			G3/7500
FVH (80°-90°)	56.7	0.4			G1/100
BL (0°-30°)	428.3	3.3	B1/500		
BM (30°-60°)	339.0	2.6	B1/1000		
BH (60°-80°)	144.9	1.1	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6
2.5°	1916.5	1898.8	1916.5	1942.1	1955.8	1967.6	2008.9	2044.3	2081.7	2107.2	2099.3
5°	1777.0	1810.4	1814.3	1822.2	1843.8	1914.6	1938.2	1999.1	2091.5	2099.3	2134.7
7.5°	1666.9	1657.1	1682.6	1733.7	1788.8	1830.0	1898.8	2005.0	2101.3	2134.7	2203.5
10°	1507.7	1527.3	1554.9	1606.0	1672.8	1775.0	1896.9	2014.8	2152.4	2164.2	2292.0
12.5°	1421.2	1401.5	1444.8	1497.8	1611.9	1706.2	1855.6	1997.1	2183.9	2248.7	2396.2
15°	1350.4	1360.2	1401.5	1436.9	1531.3	1651.2	1826.1	2040.4	2236.9	2282.2	2506.2
17.5°	1320.9	1315.0	1346.5	1381.9	1497.8	1633.5	1814.3	2042.3	2284.1	2343.1	2580.9
20°	1334.7	1346.5	1336.7	1370.1	1442.8	1580.4	1832.0	2079.7	2319.5	2400.1	2661.5
22.5°	1550.9	1535.2	1456.6	1393.7	1397.6	1558.8	1818.3	2103.3	2351.0	2415.8	2716.6
25°	2115.1	2030.5	1835.9	1594.2	1434.9	1499.8	1802.5	2095.4	2345.1	2425.6	2750.0
27.5°	2683.2	2610.4	2419.7	2044.3	1586.3	1476.2	1747.5	2101.3	2315.6	2390.3	2694.9
30°	3282.7	3322.0	3038.9	2592.7	1983.4	1606.0	1712.1	2069.9	2295.9	2358.8	2706.7
32.5°	3897.9	3882.2	3711.2	3227.6	2551.5	1892.9	1769.1	2101.3	2321.5	2382.4	2775.5
35°	4379.5	4324.5	4151.5	3715.1	3021.2	2325.4	1965.7	2250.7	2433.5	2506.2	2873.8
37.5°	4617.4	4641.0	4540.7	4161.3	3536.3	2726.4	2211.4	2250.7	2468.9	2553.4	3033.0
40°	4802.2	4872.9	4835.6	4713.7	4047.3	3178.5	2482.7	2390.3	2647.8	2807.0	3331.8
42.5°	5024.3	4990.9	5211.0	5099.0	4715.7	3748.5	2958.3	2722.5	3070.4	3223.7	3780.0
45°	5142.2	5270.0	5437.1	5580.6	5334.9	4460.1	3579.5	3310.2	3717.1	3911.7	4446.4
47.5°	5444.9	5496.0	5767.3	5948.1	5838.1	5273.9	4523.0	4169.2	4530.9	4837.5	5209.0
50°	5621.8	5553.0	5932.4	6207.6	6270.5	5948.1	5368.3	5093.1	5498.0	5889.2	5922.6
52.5°	5466.6	5663.1	6042.5	6535.9	6710.8	6549.6	6360.9	6241.0	6526.1	6887.7	6726.6
55°	4922.1	5055.7	5979.6	6895.6	7459.7	7385.1	7560.0	7481.4	7768.4	8151.7	7666.1
57.5°	4483.7	4650.8	5462.6	7082.3	8157.6	8377.7	8597.9	8548.7	8894.7	9337.0	8462.2
60°	4210.5	4306.8	5089.1	7035.2	8570.4	9403.8	9901.1	9555.2	10119.3	10457.4	9085.4
62.5°	3736.8	3797.7	4544.6	6410.1	8694.2	10129.1	10972.4	10502.6	10992.1	11404.9	9533.5
65°	2995.7	3160.8	3778.0	5474.4	7876.5	10262.8	11640.7	11088.4	11562.1	11833.4	9669.2
66°	2726.4	2846.3	3412.4	4979.1	7410.6	10040.7	11528.7	11210.3	11644.7	11892.4	9460.8
67.5°	2262.5	2366.7	2816.8	4273.4	6457.3	9551.2	11607.3	11127.7	11707.6	11556.2	9181.7
70°	1497.8	1564.7	1926.4	2889.5	4497.5	7813.6	10766.0	10483.0	10292.3	9724.2	7178.7
72.5°	699.8	796.1	1203.0	1751.4	2637.9	5466.6	8778.7	8399.3	7218.0	6309.8	4528.9
75°	316.5	359.7	660.5	1004.5	1183.3	2832.5	5663.1	5114.7	3593.3	2983.9	1983.4
77.5°	171.0	194.6	322.4	477.7	430.5	992.7	2803.1	2331.3	1132.2	829.5	575.9
80°	131.7	155.3	269.3	273.2	159.2	257.5	1041.8	721.4	283.1	214.3	137.6
82.5°	68.8	98.3	212.3	176.9	80.6	104.2	322.4	200.5	88.5	70.8	59.0
85°	27.5	43.2	119.9	117.9	47.2	35.4	90.4	60.9	35.4	29.5	27.5
87.5°	2.0	2.0	64.9	45.2	29.5	9.8	13.8	13.8	17.7	15.7	19.7
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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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6	2083.6
2.5°	2134.7	2158.3	2162.2	2227.1	2240.9	2227.1	2262.5	2256.6	2272.3	2260.5	2238.9
5°	2183.9	2217.3	2282.2	2331.3	2331.3	2292.0	2260.5	2219.3	2158.3	2142.6	2130.8
7.5°	2268.4	2374.5	2433.5	2402.1	2339.2	2191.7	1987.3	1837.9	1712.1	1664.9	1643.3
10°	2417.8	2476.8	2545.6	2417.8	2156.3	1843.8	1499.8	1273.8	1096.8	1057.5	1028.0
12.5°	2514.1	2608.5	2647.8	2331.3	1818.3	1352.4	978.9	723.4	599.5	505.2	489.5
15°	2639.9	2748.0	2667.4	2097.4	1433.0	886.5	507.1	316.5	257.5	241.8	241.8
17.5°	2726.4	2844.3	2586.8	1806.5	1016.3	471.8	251.6	218.2	214.3	216.2	212.3
20°	2877.8	2948.5	2465.0	1468.4	607.4	241.8	202.5	194.6	190.7	196.6	192.6
22.5°	2934.8	2999.6	2266.4	1063.4	273.2	161.2	151.4	145.5	149.4	147.4	145.5
25°	2930.8	2964.2	1940.1	609.4	80.6	62.9	57.0	57.0	53.1	55.0	53.1
27.5°	2960.3	2877.8	1574.5	180.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2976.0	2738.2	1120.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2983.9	2665.5	721.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	3044.8	2520.0	308.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3086.1	2333.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3257.1	2274.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3479.3	2164.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3787.9	2001.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4196.7	1904.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4501.4	1753.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4888.6	1663.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5348.6	1666.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5767.3	1639.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5981.6	1401.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5936.3	1134.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5779.1	890.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5671.0	788.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5342.7	631.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4251.8	432.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2704.8	265.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1246.2	121.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	391.2	74.7	15.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.2	47.2	15.7	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	53.1	33.4	13.8	5.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	33.4	13.8	5.9	3.9	3.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.5	7.9	3.9	3.9	2.0	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)