

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: P481842

Luminaire Tested: **IFLD-M-SA4A-830-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481842
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-830-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

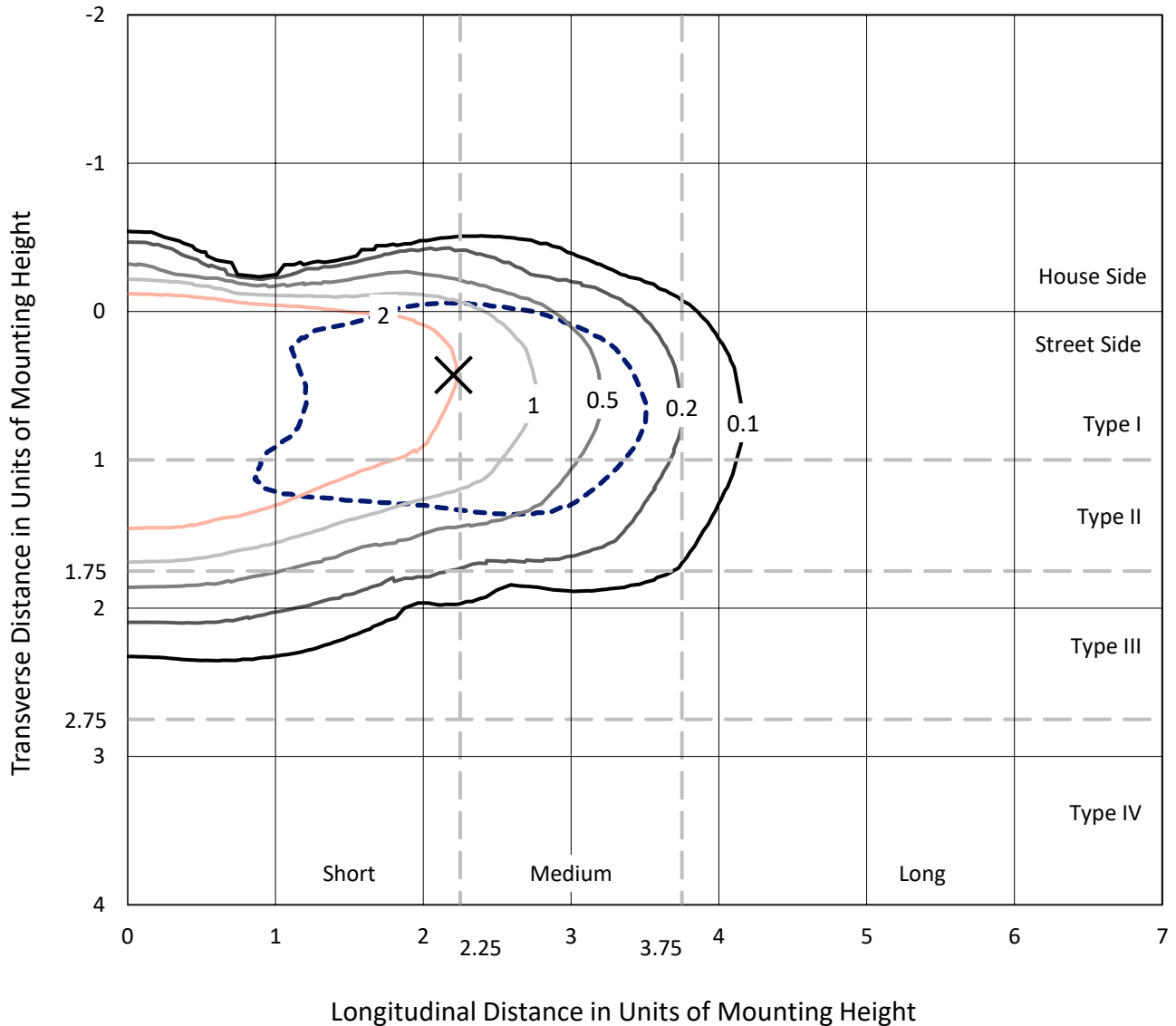
Lumens per Lamp: N/A
Luminaire Lumens: 10567.4 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 128.6
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

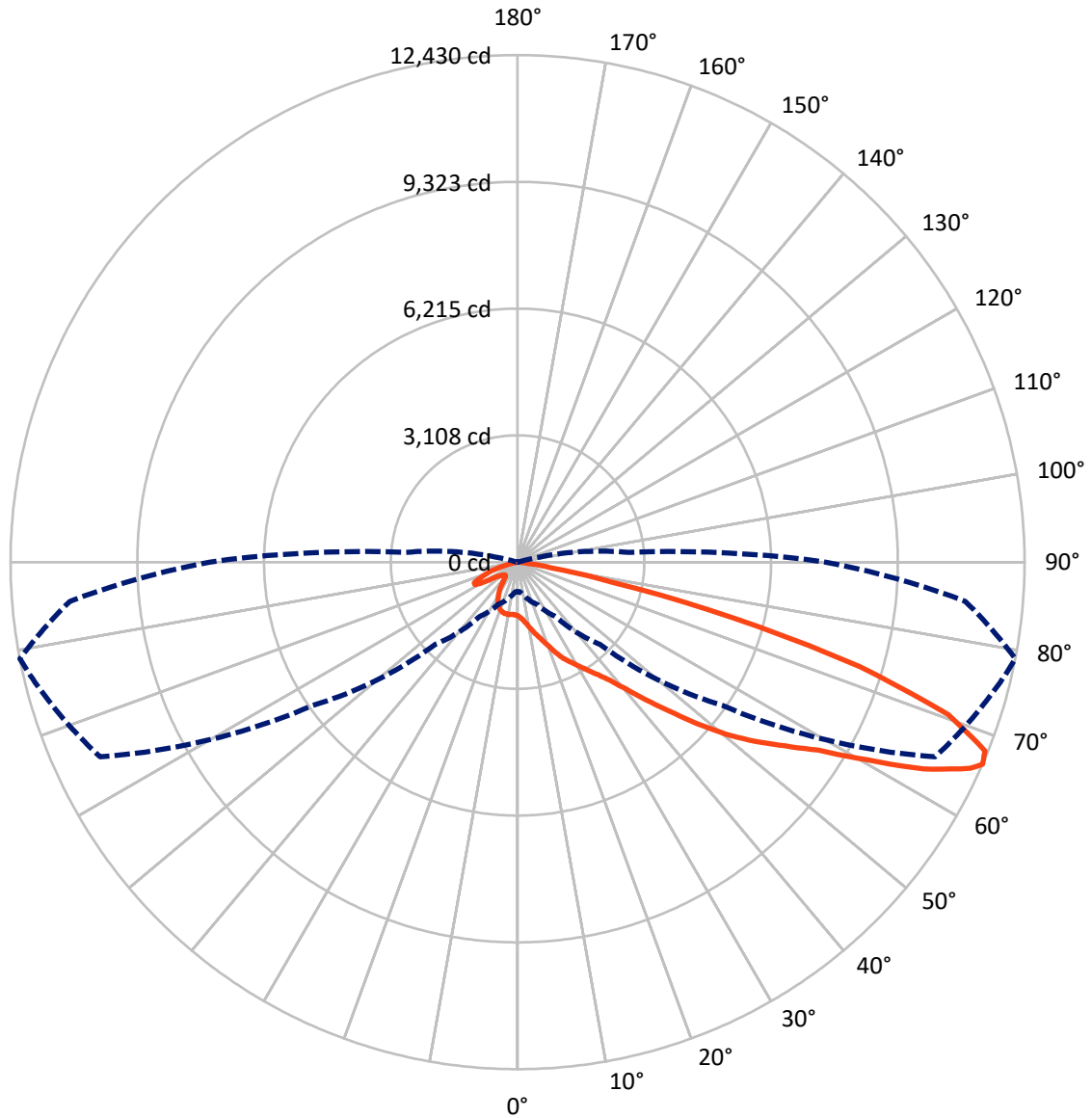
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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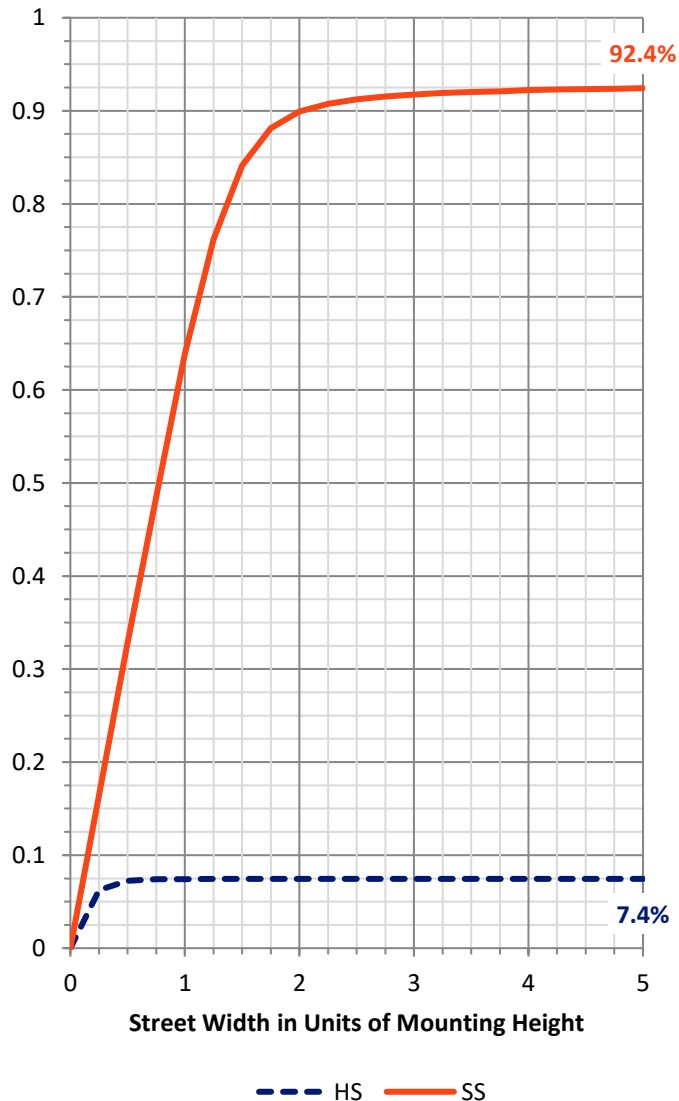
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	793.5	0.0	793.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9774.0	0.0	9774.0
	% Fixture	92.5	0.0	92.5
Total	Lumens	10567.4	0.0	10567.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	1.2
10°-20°	342.2	3.2
20°-30°	568.5	5.4
30°-40°	976.4	9.2
40°-50°	1768.9	16.7
50°-60°	2796.1	26.5
60°-70°	2845.2	26.9
70°-80°	1085.0	10.3
80°-90°	60.8	0.6
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°	10567.4	100.0
0°-180°	10567.4	100.0

Coefficient of Utilization



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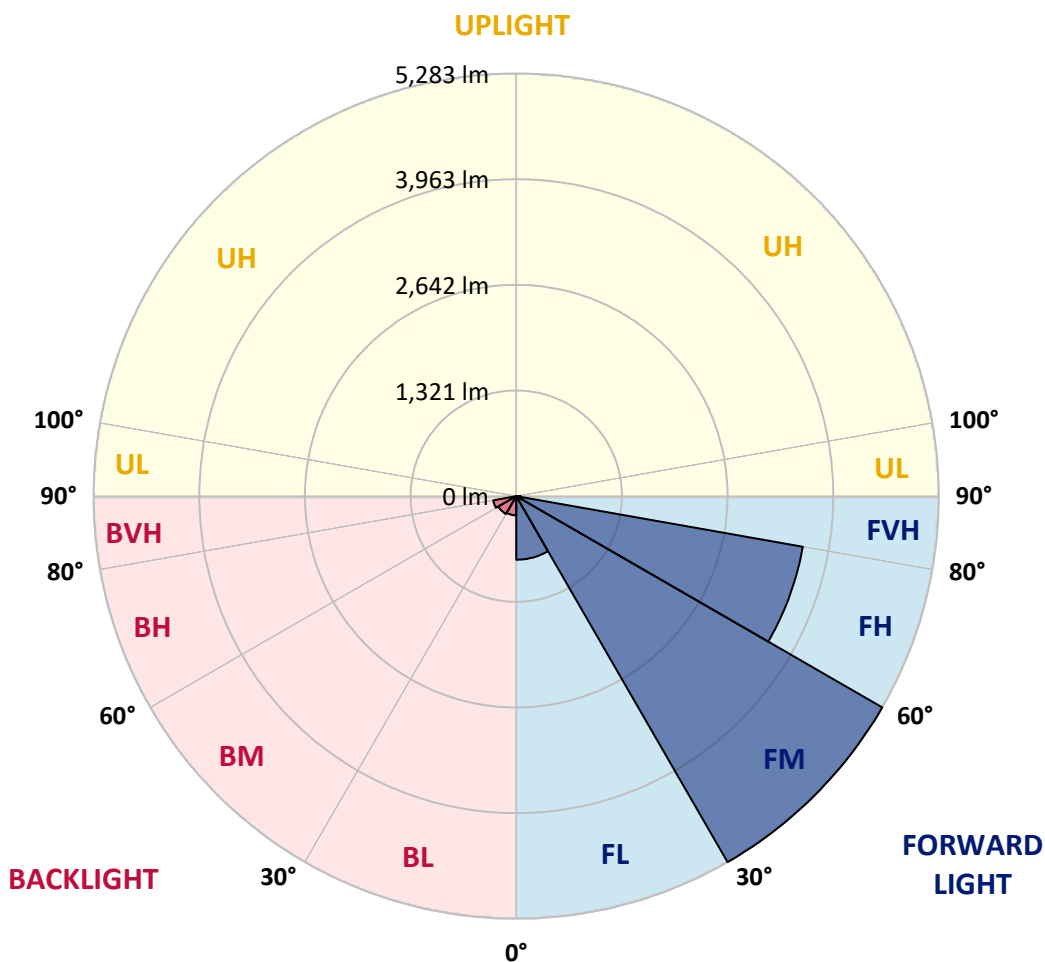
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	795.0	7.5			
FM (30°-60°)	5283.5	50.0			
FH (60°-80°)	3637.7	34.4			G2/5000
FVH (80°-90°)	57.7	0.5			G1/100
BL (0°-30°)	240.0	2.3	B1/500		
BM (30°-60°)	257.9	2.4	B1/1000		
BH (60°-80°)	292.5	2.8	B1/500		G1/500
BVH (80°-90°)	3.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7
2.5°	1489.0	1487.4	1480.9	1469.5	1454.8	1449.9	1428.8	1399.4	1383.1	1365.2	1357.1
5°	1591.7	1583.5	1603.1	1594.9	1598.2	1559.1	1533.0	1511.8	1449.9	1425.5	1386.4
7.5°	1614.5	1622.6	1621.0	1634.0	1647.1	1661.7	1643.8	1612.8	1550.9	1515.1	1472.7
10°	1614.5	1611.2	1624.3	1642.2	1679.6	1712.2	1761.1	1720.4	1673.1	1630.8	1554.2
12.5°	1585.2	1580.3	1593.3	1630.8	1697.6	1764.4	1818.1	1857.2	1790.4	1756.2	1656.8
15°	1495.5	1490.7	1544.4	1611.2	1699.2	1808.3	1920.8	1984.3	1938.7	1884.9	1774.1
17.5°	1384.8	1391.3	1448.3	1559.1	1699.2	1829.5	1972.9	2111.4	2104.8	2036.4	1920.8
20°	1347.3	1352.2	1409.2	1489.0	1648.7	1844.2	2054.3	2249.8	2288.9	2207.5	2056.0
22.5°	1419.0	1414.1	1419.0	1467.9	1614.5	1831.2	2108.1	2407.9	2477.9	2414.4	2233.5
25°	1663.4	1660.1	1619.4	1544.4	1594.9	1801.8	2135.8	2512.1	2673.4	2614.8	2376.9
27.5°	2021.8	2008.7	1945.2	1788.8	1686.2	1819.7	2181.4	2613.1	2844.5	2777.7	2505.6
30°	2406.2	2375.3	2292.2	2096.7	1922.4	1886.5	2207.5	2688.1	3035.1	2950.4	2618.0
32.5°	2671.8	2712.5	2686.5	2487.7	2220.5	2041.3	2249.8	2782.6	3211.0	3155.6	2810.3
35°	3082.3	3129.6	3020.4	2844.5	2575.7	2287.3	2339.4	2859.1	3481.5	3388.6	2989.5
37.5°	3600.4	3636.2	3558.0	3224.1	2940.6	2590.3	2523.5	3018.8	3714.4	3670.5	3219.2
40°	3861.1	4033.7	3923.0	3621.6	3316.9	3013.9	2828.2	3206.1	4120.1	4084.3	3536.9
42.5°	4221.1	4307.4	4250.4	4027.2	3709.5	3466.8	3204.5	3571.1	4612.1	4612.1	3967.0
45°	4602.3	4605.6	4602.3	4419.9	4138.0	4012.6	3712.8	4028.9	5141.6	5200.2	4481.8
47.5°	4915.1	5012.9	5004.7	4895.6	4677.3	4630.0	4221.1	4550.2	5806.3	5908.9	4983.5
50°	5076.4	5185.5	5218.1	5275.2	5265.4	5364.8	4776.6	5154.6	6379.7	6632.2	5628.7
52.5°	5032.4	5040.6	5240.9	5465.8	5824.2	6102.8	5446.2	5840.5	7050.9	7300.2	6127.2
55°	4672.4	4641.4	5053.6	5311.0	6052.3	6554.0	6373.2	6695.8	7573.9	7953.5	6642.0
57.5°	3882.2	3890.4	4271.6	4794.6	5882.8	6733.2	7363.7	7813.4	8307.0	8689.8	7365.3
60°	2679.9	2670.2	3097.0	3701.4	4887.4	6399.3	7933.9	9261.7	9287.7	9830.2	8663.8
62.5°	1507.0	1510.2	1834.4	2350.8	3419.6	5229.5	7906.2	10799.6	10688.8	11164.5	10139.8
65°	853.7	874.8	1098.0	1392.9	2047.8	3510.8	6800.0	11412.1	11768.9	12192.5	11035.8
66°	721.7	736.4	927.0	1150.2	1634.0	2847.7	6120.7	11293.2	12107.8	12430.3	11017.9
67.5°	558.8	578.3	738.0	912.3	1199.0	1971.3	4926.5	10701.8	12169.7	12358.6	10706.7
70°	382.8	395.9	518.1	692.4	819.5	1008.4	2945.5	8847.9	11042.3	11202.0	9305.6
72.5°	268.8	275.3	363.3	524.6	630.5	576.7	1461.3	6295.0	8450.3	8761.5	7238.3
75°	193.9	200.4	249.3	376.3	492.0	378.0	669.6	4020.7	5182.3	5426.7	4359.6
77.5°	140.1	148.3	169.4	242.7	356.8	265.5	329.1	2100.0	2443.7	2401.4	1875.1
80°	84.7	92.9	125.4	156.4	260.7	187.4	180.8	876.5	866.7	822.7	589.7
82.5°	39.1	45.6	66.8	105.9	182.5	130.3	86.3	312.8	273.7	250.9	166.2
85°	11.4	14.7	39.1	79.8	92.9	63.5	52.1	107.5	112.4	96.1	55.4
87.5°	0.0	1.6	17.9	19.5	27.7	21.2	19.5	27.7	52.1	42.4	17.9
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°	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7	1314.7
2.5°	1327.7	1316.3	1288.6	1246.3	1208.8	1189.3	1161.6	1137.1	1124.1	1122.5	1120.8
5°	1360.3	1329.4	1262.6	1186.0	1129.0	1067.1	1024.7	993.8	964.5	936.8	953.0
7.5°	1404.3	1355.4	1246.3	1146.9	1023.1	943.3	868.3	824.3	798.3	773.8	770.6
10°	1472.7	1410.8	1234.9	1055.7	913.9	796.6	720.1	656.5	620.7	578.3	594.6
12.5°	1565.6	1454.8	1192.5	972.6	790.1	666.3	557.2	454.5	397.5	353.5	355.2
15°	1658.5	1513.5	1153.4	871.6	677.7	514.8	355.2	285.1	268.8	259.0	262.3
17.5°	1749.7	1560.7	1093.2	769.0	549.0	327.5	259.0	244.4	236.2	226.5	226.5
20°	1860.5	1591.7	1018.2	674.5	378.0	242.7	221.6	211.8	198.8	185.7	187.4
22.5°	1968.0	1617.7	931.9	553.9	254.1	210.2	185.7	172.7	161.3	148.3	148.3
25°	2075.5	1625.9	819.5	397.5	205.3	167.8	145.0	127.1	115.7	104.3	105.9
27.5°	2148.8	1575.4	713.6	254.1	164.5	127.1	101.0	86.3	76.6	65.2	65.2
30°	2191.2	1482.5	599.5	179.2	123.8	86.3	60.3	45.6	35.8	27.7	26.1
32.5°	2233.5	1407.6	470.8	136.8	81.5	45.6	22.8	8.1	0.0	0.0	0.0
35°	2318.3	1322.9	316.1	76.6	27.7	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2372.0	1205.6	145.0	11.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2507.2	1146.9	35.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2727.2	1106.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2968.3	1089.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3289.2	1133.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3628.1	1252.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3999.5	1365.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4323.7	1500.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4920.0	1819.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5990.3	2447.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	7195.9	2912.9	17.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7637.4	2901.5	31.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7559.2	2741.8	31.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7153.5	2435.6	27.7	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	6143.5	2012.0	27.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4683.8	1567.2	26.1	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2826.6	834.1	21.2	8.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1125.7	293.2	16.3	6.5	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	304.6	88.0	9.8	6.5	4.9	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	79.8	32.6	8.1	6.5	3.3	1.6	0.0	0.0	0.0	0.0	0.0
85°	31.0	13.0	6.5	4.9	4.9	3.3	1.6	0.0	0.0	0.0	0.0
87.5°	9.8	4.9	4.9	3.3	3.3	1.6	1.6	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)