

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: P480527

Luminaire Tested: **IFLD-L-SA8B-740-U-SL3**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P480527  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-SL3  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

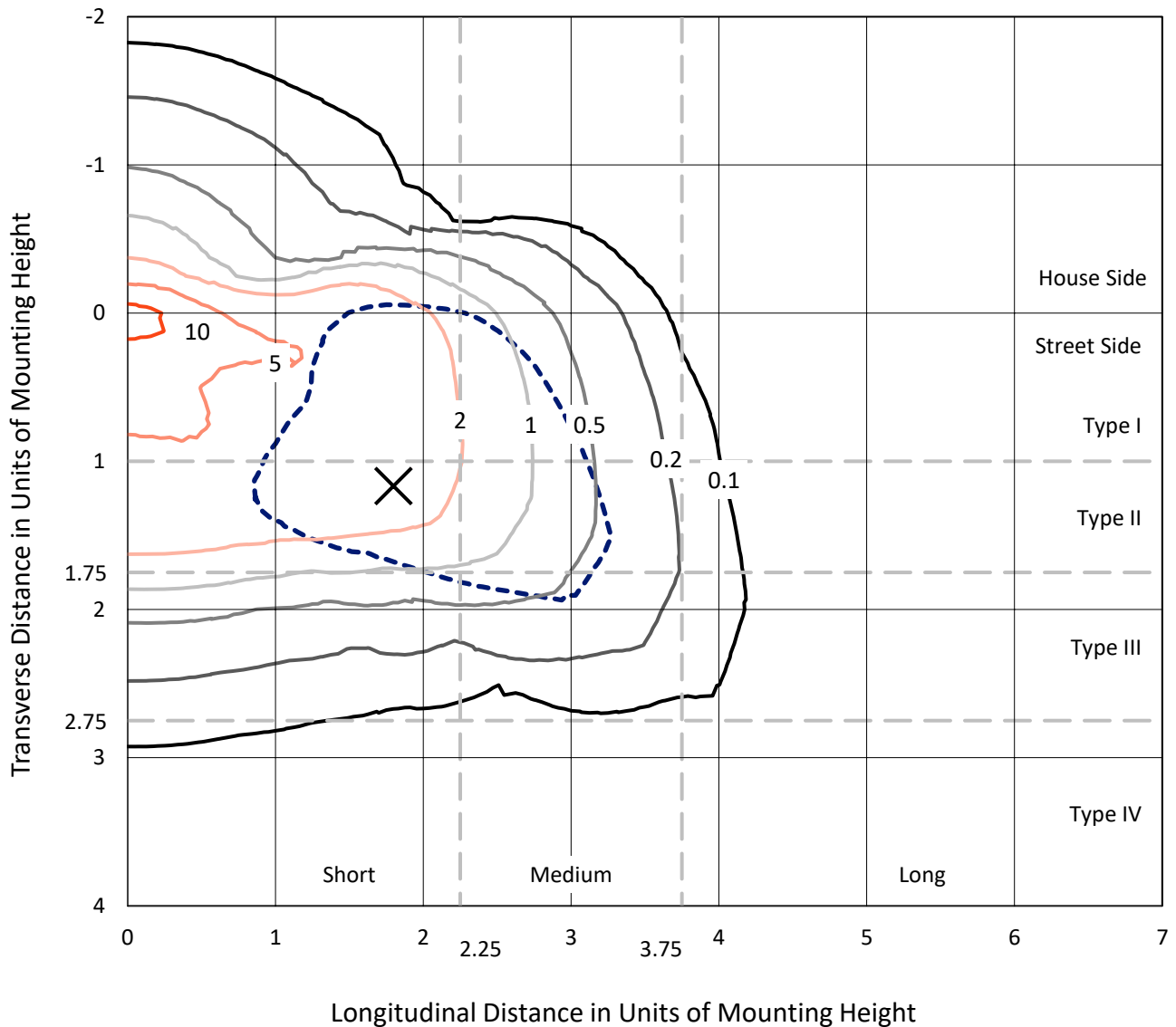
Lumens per Lamp: N/A  
Luminaire Lumens: 40158.4 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

Input Watts (W): 320  
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

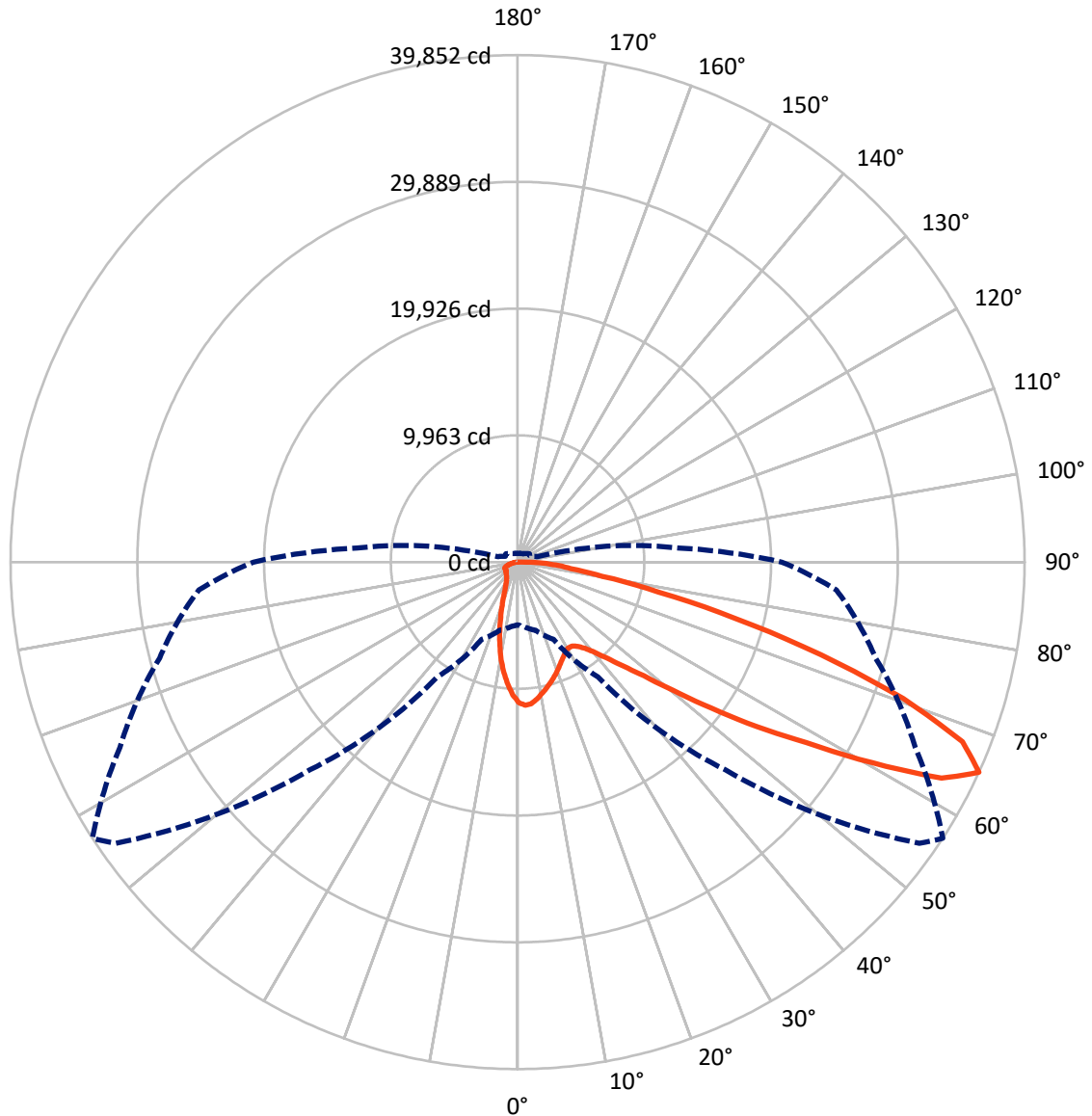
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.3 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6158.7	0.0	6158.7
	% Fixture	15.3	0.0	15.3
<b>Street Side</b>	Lumens	33999.8	0.0	33999.8
	% Fixture	84.7	0.0	84.7
<b>Total</b>	Lumens	40158.4	0.0	40158.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	924.8	2.3
10°-20°	1990.2	5.0
20°-30°	2573.2	6.4
30°-40°	3462.7	8.6
40°-50°	5521.4	13.7
50°-60°	9752.2	24.3
60°-70°	10728.7	26.7
70°-80°	4488.0	11.2
80°-90°	717.3	1.8
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°	40158.4	100.0
0°-180°	40158.4	100.0

**Coefficient of Utilization**



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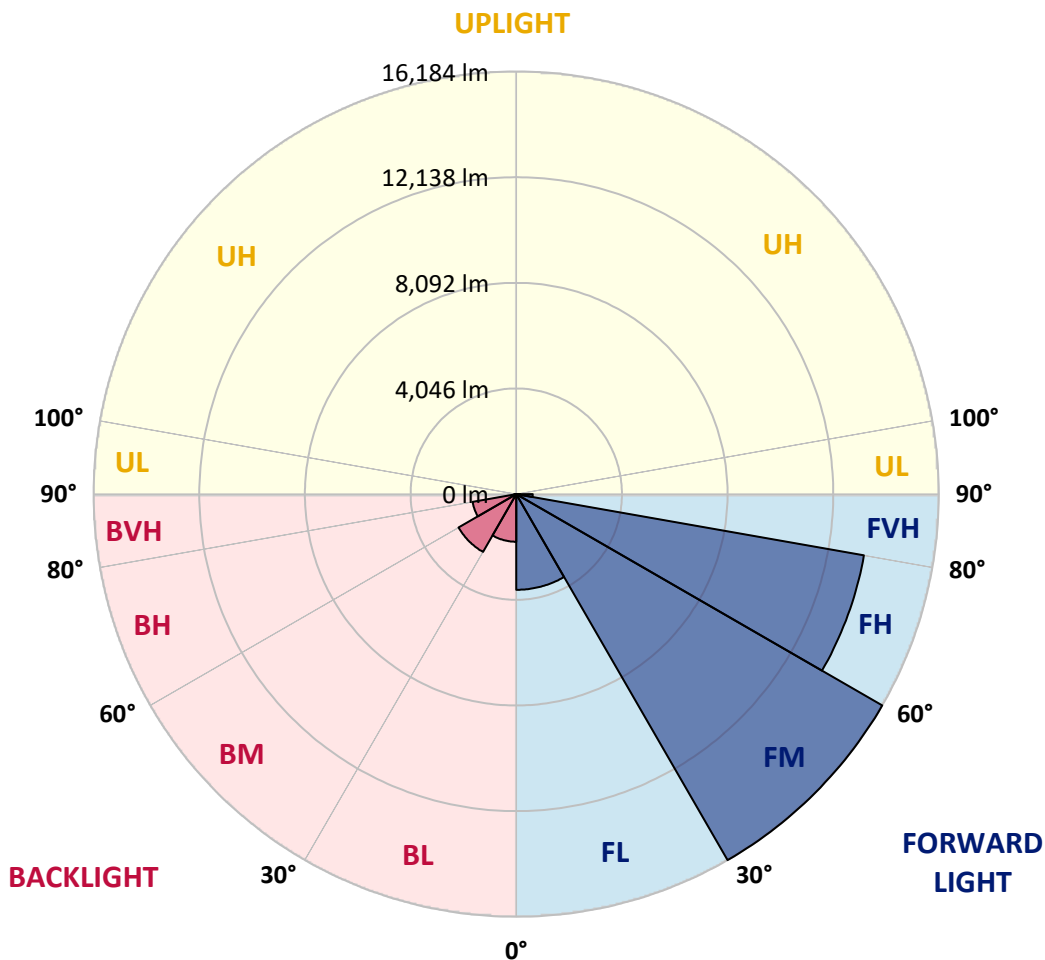
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3664.3	9.1			
FM (30°-60°)	16183.8	40.3			
FH (60°-80°)	13518.5	33.7			G5
FVH (80°-90°)	633.1	1.6			G4/750
BL (0°-30°)	1823.9	4.5	B3/2500		
BM (30°-60°)	2552.5	6.4	B3/5000		
BH (60°-80°)	1698.1	4.2	B3/2500		G3/2500
BVH (80°-90°)	84.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0
2.5°	11341.2	11359.3	11359.3	11395.4	11273.4	11332.2	11323.1	11268.9	11287.0	11192.1	11097.2
5°	11020.4	11006.9	11079.2	11088.2	11183.1	11210.2	11232.8	11196.6	11205.7	10997.8	10907.5
7.5°	10198.1	10193.5	10315.5	10419.5	10618.3	10803.5	10925.5	10889.4	10939.1	10808.0	10595.7
10°	9222.1	9326.0	9452.5	9556.4	9922.4	10157.4	10473.7	10505.3	10695.1	10663.5	10279.4
12.5°	8490.1	8535.3	8630.2	8928.4	9262.7	9651.3	10103.2	10143.8	10329.1	10419.5	10085.1
15°	7889.2	7929.8	8051.8	8273.2	8648.2	9109.1	9683.0	9786.9	10157.4	10189.0	9832.1
17.5°	7450.9	7482.5	7563.8	7785.2	8092.5	8684.4	9226.6	9411.9	9899.8	10053.5	9570.0
20°	7279.2	7211.4	7256.6	7396.6	7703.9	8160.3	8860.6	9023.3	9646.8	9949.5	9321.5
22.5°	7202.4	7143.6	7170.7	7161.7	7405.7	7731.0	8467.5	8639.2	9407.3	9827.5	9100.1
25°	7261.1	7261.1	7234.0	7211.4	7238.5	7450.9	8042.8	8309.4	9086.5	9723.6	8874.2
27.5°	7577.4	7455.4	7468.9	7374.1	7346.9	7346.9	7853.0	8011.1	8982.6	9664.9	8688.9
30°	7780.7	7839.4	7844.0	7703.9	7563.8	7310.8	7676.8	7830.4	8896.8	9737.2	8580.5
32.5°	8300.3	8273.2	8196.4	8169.3	7961.4	7676.8	7762.6	7866.6	8847.1	9899.8	8612.1
35°	8819.9	8806.4	8810.9	8797.4	8580.5	8160.3	7993.1	8133.1	8937.4	10184.5	8720.5
37.5°	9357.6	9393.8	9547.4	9547.4	9317.0	8860.6	8639.2	8598.5	9267.3	10649.9	8978.1
40°	9895.3	9985.7	10180.0	10487.2	10161.9	9737.2	9380.2	9317.0	9664.9	11273.4	9597.1
42.5°	10410.4	10559.5	10943.6	11400.0	11291.5	10866.8	10392.4	10320.1	10482.7	12199.7	10460.1
45°	11070.1	11196.6	11802.1	12502.5	12651.6	12276.5	11720.8	11662.0	11653.0	13555.2	11648.5
47.5°	12073.2	12208.8	12814.2	13519.1	13980.0	14038.7	13415.2	13351.9	13135.0	15385.2	13388.1
50°	13329.3	13550.7	14061.3	14883.7	15552.4	16180.4	16004.2	15819.0	15394.2	17513.4	15593.0
52.5°	14246.6	14517.7	15209.0	16261.8	17441.1	18439.6	19072.2	19072.2	18096.2	19849.4	18245.4
55°	14490.6	14653.2	15525.3	17048.0	19067.7	21593.5	22917.4	22818.0	21313.4	22307.4	21331.4
57.5°	13519.1	13731.5	14788.8	16383.8	19921.7	24544.0	26735.5	26758.0	24828.7	25163.0	24376.8
60°	10844.2	10912.0	12159.1	14291.7	19099.3	26920.7	31949.7	32035.6	28827.5	27706.9	25926.7
62.5°	7496.0	7712.9	8652.8	10523.4	15823.5	26654.1	36978.7	37403.4	32031.0	29048.9	26170.7
65°	4934.1	5065.1	5566.7	6705.3	11015.9	23102.6	38542.1	39852.4	34480.0	29125.7	25149.5
67.5°	3578.6	3601.2	3750.3	4337.7	6619.5	16614.2	35871.7	37719.7	35397.3	28484.1	22754.7
70°	2891.8	2909.9	2964.1	3339.1	4274.4	10396.9	29256.7	32153.0	32645.5	25443.2	18326.7
72.5°	2349.6	2372.2	2439.9	2792.4	3524.4	5783.6	21394.7	24923.6	26554.7	18823.7	12181.6
75°	1848.0	1866.1	2028.8	2376.7	3312.0	3971.7	14192.3	17648.9	17870.3	11002.3	5702.2
77.5°	1265.2	1296.8	1495.6	2015.2	3117.7	3474.7	8847.1	11305.1	10143.8	4306.0	1961.0
80°	804.3	849.5	966.9	1527.2	2756.2	3316.5	5503.4	6750.5	4441.6	1473.0	944.3
82.5°	474.4	519.6	637.1	989.5	2164.3	3077.0	3876.8	4224.7	2083.0	754.6	569.3
85°	262.1	293.7	384.1	596.4	1269.7	2733.6	3104.2	3031.9	1192.9	402.1	357.0
87.5°	85.8	99.4	140.1	239.5	524.1	1287.7	1861.6	1748.6	619.0	185.3	140.1
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°	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0	11043.0
2.5°	11034.0	11020.4	10817.1	10663.5	10401.4	10184.5	10098.7	9981.2	9976.7	9890.8	9868.2
5°	10767.4	10627.3	10315.5	10017.3	9551.9	9240.2	8955.5	8756.7	8675.4	8499.1	8458.5
7.5°	10424.0	10238.7	9759.8	9199.5	8652.8	8164.8	7722.0	7279.2	7030.7	6944.8	6849.9
10°	10067.0	9741.7	9032.3	8404.2	7640.6	6890.6	6194.7	5571.2	5232.3	4992.8	4888.9
12.5°	9782.4	9348.6	8444.9	7505.1	6497.5	5494.4	4685.6	4030.4	3646.4	3465.6	3384.3
15°	9461.6	8887.7	7803.3	6615.0	5358.8	4220.2	3429.5	2914.4	2760.8	2674.9	2661.3
17.5°	9122.7	8458.5	7107.5	5738.4	4247.3	3176.4	2665.9	2458.0	2390.2	2354.1	2336.0
20°	8806.4	8074.4	6393.6	4762.4	3325.6	2548.4	2308.9	2200.5	2195.9	2214.0	2209.5
22.5°	8359.1	7572.9	5688.7	3858.7	2656.8	2218.5	2064.9	2037.8	2064.9	2087.5	2096.5
25°	8106.0	7161.7	4902.5	3063.5	2195.9	1970.0	1920.3	1911.3	1952.0	1979.1	1974.5
27.5°	7844.0	6737.0	4170.5	2453.5	1924.8	1793.8	1784.8	1793.8	1834.5	1875.1	1870.6
30°	7640.6	6398.1	3483.7	2051.4	1717.0	1667.3	1658.3	1667.3	1689.9	1694.4	1694.4
32.5°	7473.5	5995.9	2900.8	1780.3	1590.5	1549.8	1558.9	1554.3	1558.9	1563.4	1567.9
35°	7374.1	5756.5	2421.9	1613.1	1486.6	1454.9	1450.4	1436.9	1441.4	1445.9	1441.4
37.5°	7586.4	5639.0	2042.3	1495.6	1414.3	1387.2	1378.1	1369.1	1355.5	1355.5	1355.5
40°	7907.2	5575.7	1811.9	1418.8	1360.0	1328.4	1301.3	1292.3	1292.3	1296.8	1301.3
42.5°	8544.3	5679.6	1653.7	1360.0	1292.3	1256.1	1229.0	1233.5	1247.1	1260.6	1251.6
45°	9466.1	5995.9	1581.4	1314.9	1251.6	1201.9	1183.8	1179.3	1192.9	1215.5	1233.5
47.5°	10672.5	6488.4	1554.3	1274.2	1224.5	1156.7	1134.1	1147.7	1165.8	1197.4	1183.8
50°	12647.0	7595.5	1576.9	1238.0	1183.8	1134.1	1107.0	1093.5	1107.0	1129.6	1138.6
52.5°	15227.1	9606.1	1662.8	1220.0	1156.7	1116.0	1070.9	1048.3	1061.8	1079.9	1079.9
55°	18313.1	12353.3	1902.3	1197.4	1111.5	1088.9	1039.2	994.1	1003.1	1003.1	998.6
57.5°	21033.2	14427.3	2186.9	1165.8	1084.4	1052.8	989.5	935.3	926.3	930.8	935.3
60°	22253.2	14978.5	2322.5	1156.7	1084.4	1007.6	921.8	867.5	854.0	844.9	844.9
62.5°	22040.8	14025.2	2046.8	1116.0	1111.5	971.5	858.5	799.8	781.7	763.6	768.1
65°	20757.6	12665.1	1613.1	1061.8	1116.0	948.9	795.2	736.5	704.9	682.3	677.8
67.5°	18412.5	10812.6	1278.7	1021.2	1070.9	908.2	741.0	673.2	646.1	623.5	614.5
70°	14404.7	8476.5	1111.5	966.9	962.4	808.8	677.8	619.0	578.4	551.2	551.2
72.5°	9339.6	5358.8	953.4	858.5	831.4	677.8	587.4	551.2	519.6	497.0	497.0
75°	4229.2	2489.6	768.1	718.4	677.8	542.2	497.0	479.0	451.8	429.2	429.2
77.5°	1518.2	1061.8	573.8	564.8	506.1	420.2	402.1	388.6	370.5	347.9	347.9
80°	849.5	673.2	429.2	411.2	352.4	311.8	289.2	289.2	280.1	266.6	262.1
82.5°	537.7	438.3	316.3	275.6	230.4	207.8	198.8	194.3	189.8	171.7	167.2
85°	338.9	298.2	207.8	162.7	135.6	103.9	99.4	94.9	85.8	76.8	76.8
87.5°	153.6	171.7	81.3	49.7	36.1	22.6	13.6	4.5	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)