

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: P480684

Luminaire Tested: **IFLD-L-SA8C-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480684
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

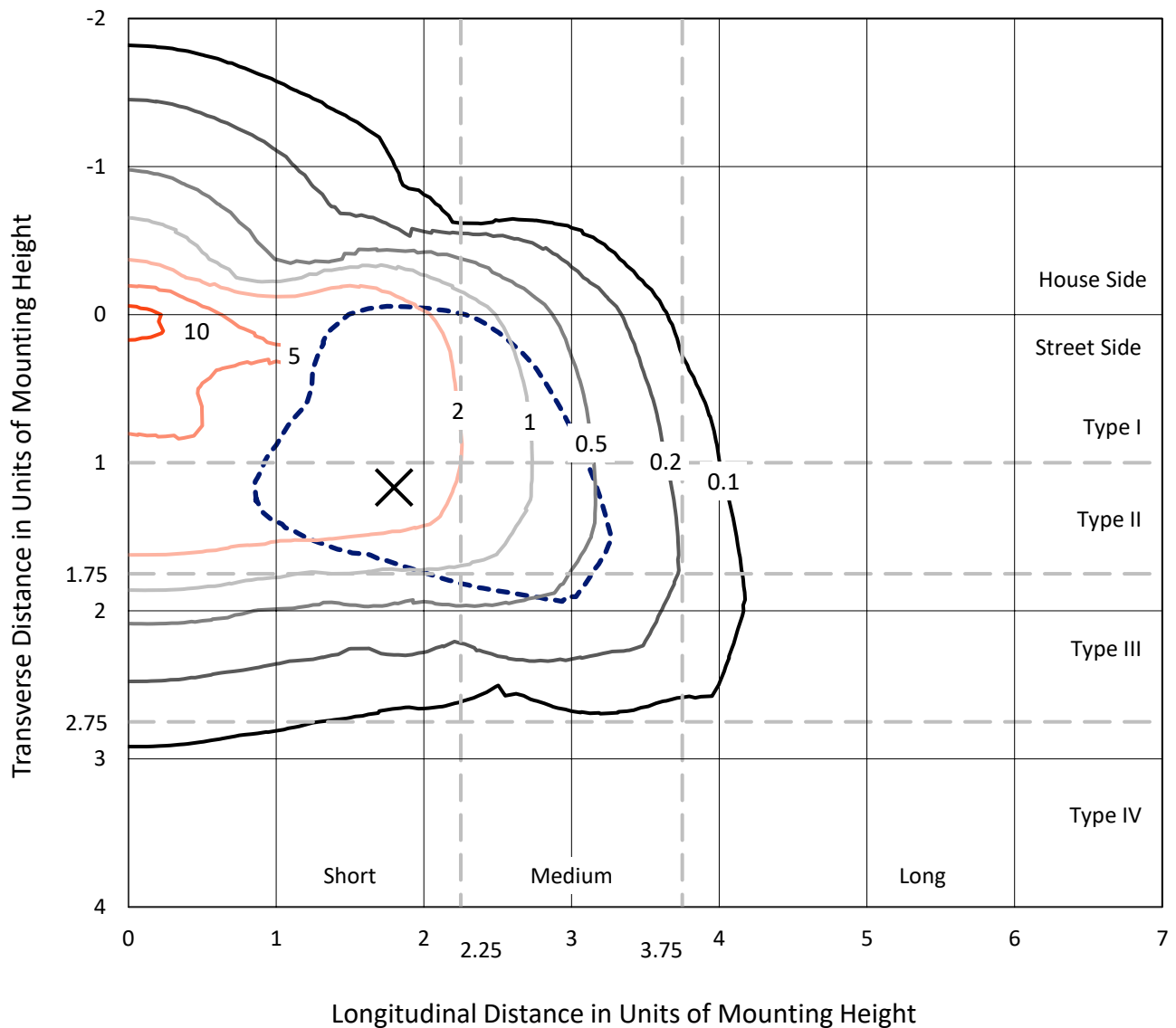
Lumens per Lamp: N/A
Luminaire Lumens: 39723.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 420.3
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

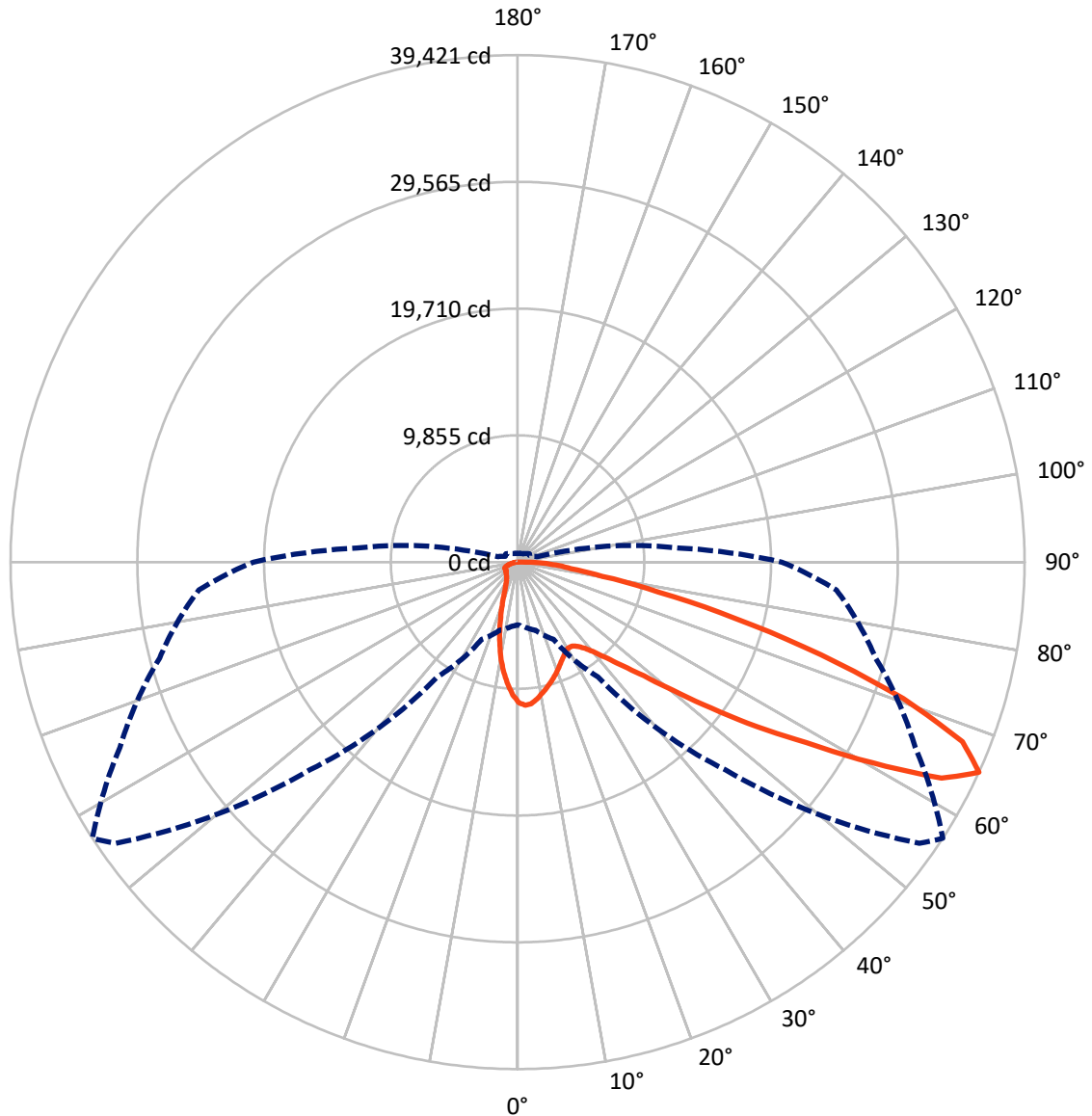
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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
House Side	Lumens	6091.9	0.0	6091.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	33631.3	0.0	33631.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	39723.2	0.0	39723.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	914.7	2.3
10°-20°	1968.7	5.0
20°-30°	2545.3	6.4
30°-40°	3425.2	8.6
40°-50°	5461.6	13.7
50°-60°	9646.5	24.3
60°-70°	10612.4	26.7
70°-80°	4439.3	11.2
80°-90°	709.5	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°	39723.2	100.0
0°-180°	39723.2	100.0

Coefficient of Utilization



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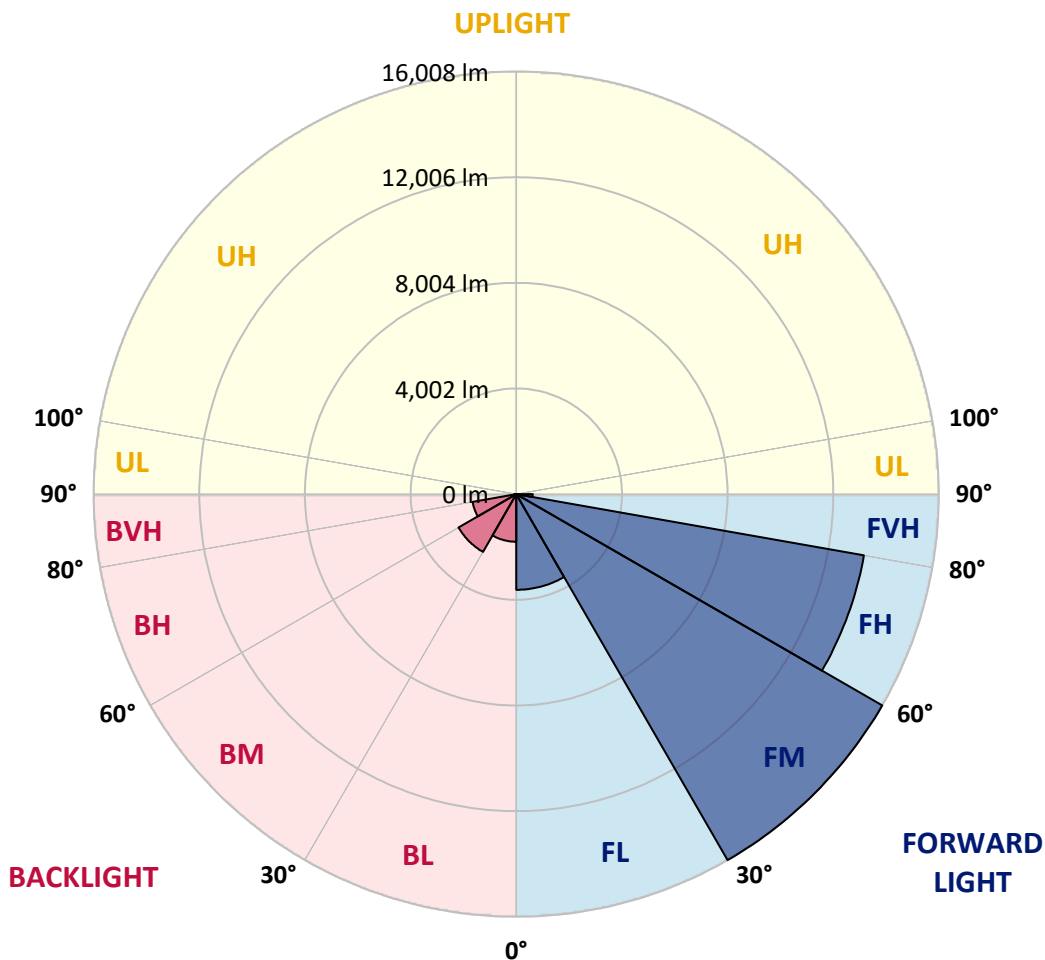
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3624.6	9.1			
FM (30°-60°)	16008.4	40.3			
FH (60°-80°)	13372.0	33.7			G5
FVH (80°-90°)	626.3	1.6			G4/750
BL (0°-30°)	1804.1	4.5	B3/2500		
BM (30°-60°)	2524.8	6.4	B3/5000		
BH (60°-80°)	1679.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	83.2	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°	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3
2.5°	11218.3	11236.2	11236.2	11271.9	11151.3	11209.4	11200.4	11146.8	11164.7	11070.8	10977.0
5°	10901.0	10887.6	10959.1	10968.0	11061.9	11088.7	11111.0	11075.3	11084.2	10878.6	10789.2
7.5°	10087.5	10083.1	10203.7	10306.5	10503.2	10686.4	10807.1	10771.4	10820.5	10690.9	10480.8
10°	9122.1	9224.9	9350.1	9452.9	9814.9	10047.3	10360.2	10391.5	10579.2	10547.9	10168.0
12.5°	8398.1	8442.8	8536.6	8831.6	9162.4	9546.7	9993.7	10033.9	10217.1	10306.5	9975.8
15°	7803.6	7843.9	7964.5	8183.6	8554.5	9010.4	9578.0	9680.8	10047.3	10078.6	9725.5
17.5°	7370.1	7401.4	7481.8	7700.9	8004.8	8590.3	9126.6	9309.9	9792.6	9944.5	9466.3
20°	7200.3	7133.2	7177.9	7316.5	7620.4	8071.8	8764.6	8925.5	9542.3	9841.7	9220.5
22.5°	7124.3	7066.2	7093.0	7084.1	7325.4	7647.2	8375.7	8545.6	9305.4	9721.0	9001.5
25°	7182.4	7182.4	7155.6	7133.2	7160.0	7370.1	7955.6	8219.3	8988.1	9618.2	8778.0
27.5°	7495.3	7374.6	7388.0	7294.1	7267.3	7267.3	7767.9	7924.3	8885.3	9560.1	8594.7
30°	7696.4	7754.5	7759.0	7620.4	7481.8	7231.6	7593.6	7745.5	8800.3	9631.7	8487.5
32.5°	8210.4	8183.6	8107.6	8080.8	7875.2	7593.6	7678.5	7781.3	8751.2	9792.6	8518.8
35°	8724.4	8710.9	8715.4	8702.0	8487.5	8071.8	7906.4	8045.0	8840.6	10074.1	8626.0
37.5°	9256.2	9292.0	9443.9	9443.9	9216.0	8764.6	8545.6	8505.4	9166.8	10534.5	8880.8
40°	9788.1	9877.5	10069.7	10373.6	10051.8	9631.7	9278.6	9216.0	9560.1	11151.3	9493.1
42.5°	10297.6	10445.1	10825.0	11276.4	11169.1	10749.0	10279.7	10208.2	10369.1	12067.5	10346.8
45°	10950.1	11075.3	11674.2	12367.0	12514.4	12143.5	11593.7	11535.6	11526.7	13408.3	11522.2
47.5°	11942.4	12076.4	12675.3	13372.6	13828.5	13886.6	13269.8	13207.2	12992.7	15218.5	13243.0
50°	13184.9	13403.9	13908.9	14722.3	15383.8	16005.1	15830.8	15647.5	15227.4	17323.6	15424.0
52.5°	14092.2	14360.3	15044.1	16085.5	17252.1	18239.8	18865.5	18865.5	17900.1	19634.3	18047.6
55°	14333.5	14494.4	15357.0	16863.2	18861.1	21359.5	22669.0	22570.7	21082.4	22065.6	21100.2
57.5°	13372.6	13582.6	14628.5	16206.2	19705.8	24278.0	26445.7	26468.0	24559.6	24890.3	24112.6
60°	10726.7	10793.7	12027.3	14136.8	18892.3	26628.9	31603.4	31688.4	28515.0	27406.6	25645.7
62.5°	7414.8	7629.3	8559.0	10409.3	15652.0	26365.2	36577.9	36998.1	31683.9	28734.1	25887.0
65°	4880.6	5010.2	5506.4	6632.7	10896.5	22852.3	38124.4	39420.5	34106.3	28810.0	24876.9
67.5°	3539.8	3562.1	3709.6	4290.7	6547.7	16434.1	35482.9	37310.9	35013.6	28175.4	22508.1
70°	2860.4	2878.3	2932.0	3302.9	4228.1	10284.2	28939.6	31804.6	32291.7	25167.4	18128.1
72.5°	2324.1	2346.5	2413.5	2762.1	3486.2	5720.9	21162.8	24653.5	26266.9	18619.7	12049.6
75°	1828.0	1845.9	2006.8	2350.9	3276.1	3928.6	14038.5	17457.6	17676.6	10883.1	5640.4
77.5°	1251.4	1282.7	1479.4	1993.4	3083.9	3437.0	8751.2	11182.5	10033.9	4259.4	1939.7
80°	795.6	840.3	956.5	1510.7	2726.4	3280.6	5443.8	6677.3	4393.5	1457.0	934.1
82.5°	469.3	514.0	630.2	978.8	2140.9	3043.7	3834.8	4178.9	2060.4	746.4	563.1
85°	259.2	290.5	379.9	590.0	1255.9	2704.0	3070.5	2999.0	1179.9	397.8	353.1
87.5°	84.9	98.3	138.6	236.9	518.5	1273.8	1841.4	1729.7	612.3	183.2	138.6
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°	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3	10923.3
2.5°	10914.4	10901.0	10699.8	10547.9	10288.7	10074.1	9989.2	9873.0	9868.5	9783.6	9761.3
5°	10650.7	10512.1	10203.7	9908.8	9448.4	9140.0	8858.4	8661.8	8581.3	8407.0	8366.8
7.5°	10311.0	10127.8	9654.0	9099.8	8559.0	8076.3	7638.3	7200.3	6954.5	6869.5	6775.7
10°	9957.9	9636.1	8934.4	8313.2	7557.8	6815.9	6127.6	5510.8	5175.6	4938.7	4835.9
12.5°	9676.3	9247.3	8353.4	7423.7	6427.1	5434.8	4634.8	3986.7	3606.8	3428.1	3347.6
15°	9359.0	8791.4	7718.7	6543.3	5300.8	4174.5	3392.3	2882.8	2730.8	2645.9	2632.5
17.5°	9023.8	8366.8	7030.4	5676.2	4201.3	3142.0	2637.0	2431.4	2364.3	2328.6	2310.7
20°	8710.9	7986.9	6324.3	4710.8	3289.5	2520.8	2283.9	2176.6	2172.1	2190.0	2185.6
22.5°	8268.5	7490.8	5627.0	3816.9	2628.0	2194.5	2042.5	2015.7	2042.5	2064.9	2073.8
25°	8018.2	7084.1	4849.3	3030.3	2172.1	1948.7	1899.5	1890.6	1930.8	1957.6	1953.1
27.5°	7759.0	6663.9	4125.3	2426.9	1904.0	1774.4	1765.4	1774.4	1814.6	1854.8	1850.3
30°	7557.8	6328.7	3445.9	2029.1	1698.4	1649.2	1640.3	1649.2	1671.6	1676.0	1676.0
32.5°	7392.5	5931.0	2869.4	1761.0	1573.2	1533.0	1542.0	1537.5	1542.0	1546.4	1550.9
35°	7294.1	5694.1	2395.6	1595.6	1470.4	1439.2	1434.7	1421.3	1425.8	1430.2	1425.8
37.5°	7504.2	5577.9	2020.2	1479.4	1398.9	1372.1	1363.2	1354.2	1340.8	1340.8	1340.8
40°	7821.5	5515.3	1792.2	1403.4	1345.3	1314.0	1287.2	1278.3	1278.3	1282.7	1287.2
42.5°	8451.7	5618.1	1635.8	1345.3	1278.3	1242.5	1215.7	1220.2	1233.6	1247.0	1238.0
45°	9363.5	5931.0	1564.3	1300.6	1238.0	1188.9	1171.0	1166.5	1179.9	1202.3	1220.2
47.5°	10556.8	6418.1	1537.5	1260.4	1211.2	1144.2	1121.8	1135.2	1153.1	1184.4	1171.0
50°	12510.0	7513.1	1559.8	1224.6	1171.0	1121.8	1095.0	1081.6	1095.0	1117.4	1126.3
52.5°	15062.0	9502.0	1644.8	1206.7	1144.2	1104.0	1059.3	1036.9	1050.3	1068.2	1068.2
55°	18114.7	12219.5	1881.6	1184.4	1099.5	1077.1	1028.0	983.3	992.2	992.2	987.7
57.5°	20805.3	14270.9	2163.2	1153.1	1072.7	1041.4	978.8	925.2	916.2	920.7	925.2
60°	22012.0	14816.2	2297.3	1144.2	1072.7	996.7	911.8	858.1	844.7	835.8	835.8
62.5°	21801.9	13873.2	2024.7	1104.0	1099.5	960.9	849.2	791.1	773.2	755.3	759.8
65°	20532.6	12527.9	1595.6	1050.3	1104.0	938.6	786.6	728.5	697.2	674.9	670.4
67.5°	18213.0	10695.4	1264.9	1010.1	1059.3	898.4	733.0	665.9	639.1	616.8	607.8
70°	14248.6	8384.7	1099.5	956.5	952.0	800.0	670.4	612.3	572.1	545.3	545.3
72.5°	9238.3	5300.8	943.1	849.2	822.4	670.4	581.0	545.3	514.0	491.6	491.6
75°	4183.4	2462.7	759.8	710.6	670.4	536.3	491.6	473.8	446.9	424.6	424.6
77.5°	1501.7	1050.3	567.6	558.7	500.6	415.7	397.8	384.4	366.5	344.1	344.1
80°	840.3	665.9	424.6	406.7	348.6	308.4	286.0	286.0	277.1	263.7	259.2
82.5°	531.9	433.5	312.9	272.6	227.9	205.6	196.7	192.2	187.7	169.8	165.4
85°	335.2	295.0	205.6	160.9	134.1	102.8	98.3	93.9	84.9	76.0	76.0
87.5°	152.0	169.8	80.4	49.2	35.8	22.3	13.4	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)