

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: P480489

Luminaire Tested: **IFLD-L-SA8C-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480489
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

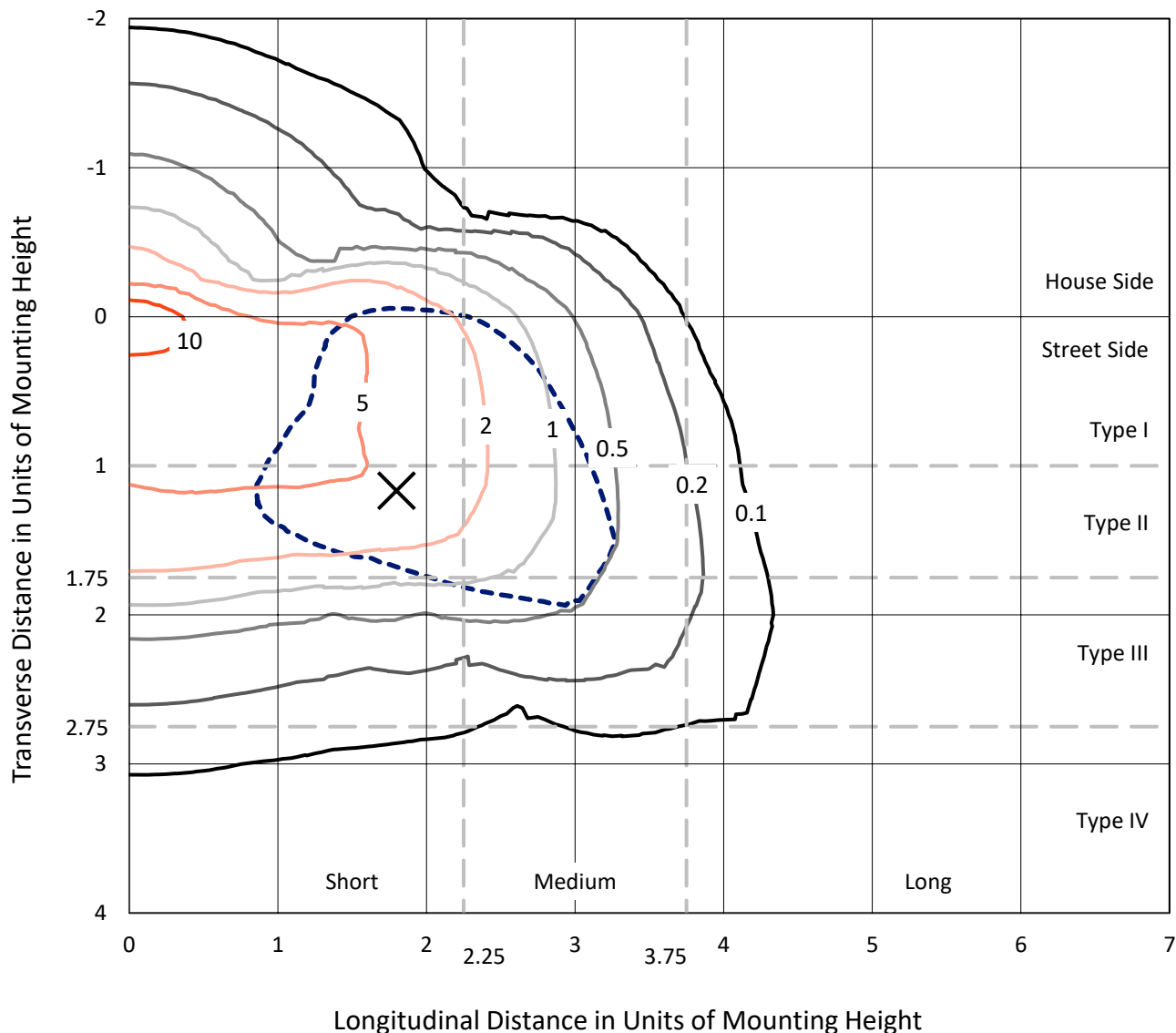
Lumens per Lamp: N/A
Luminaire Lumens: 49306.6 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

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

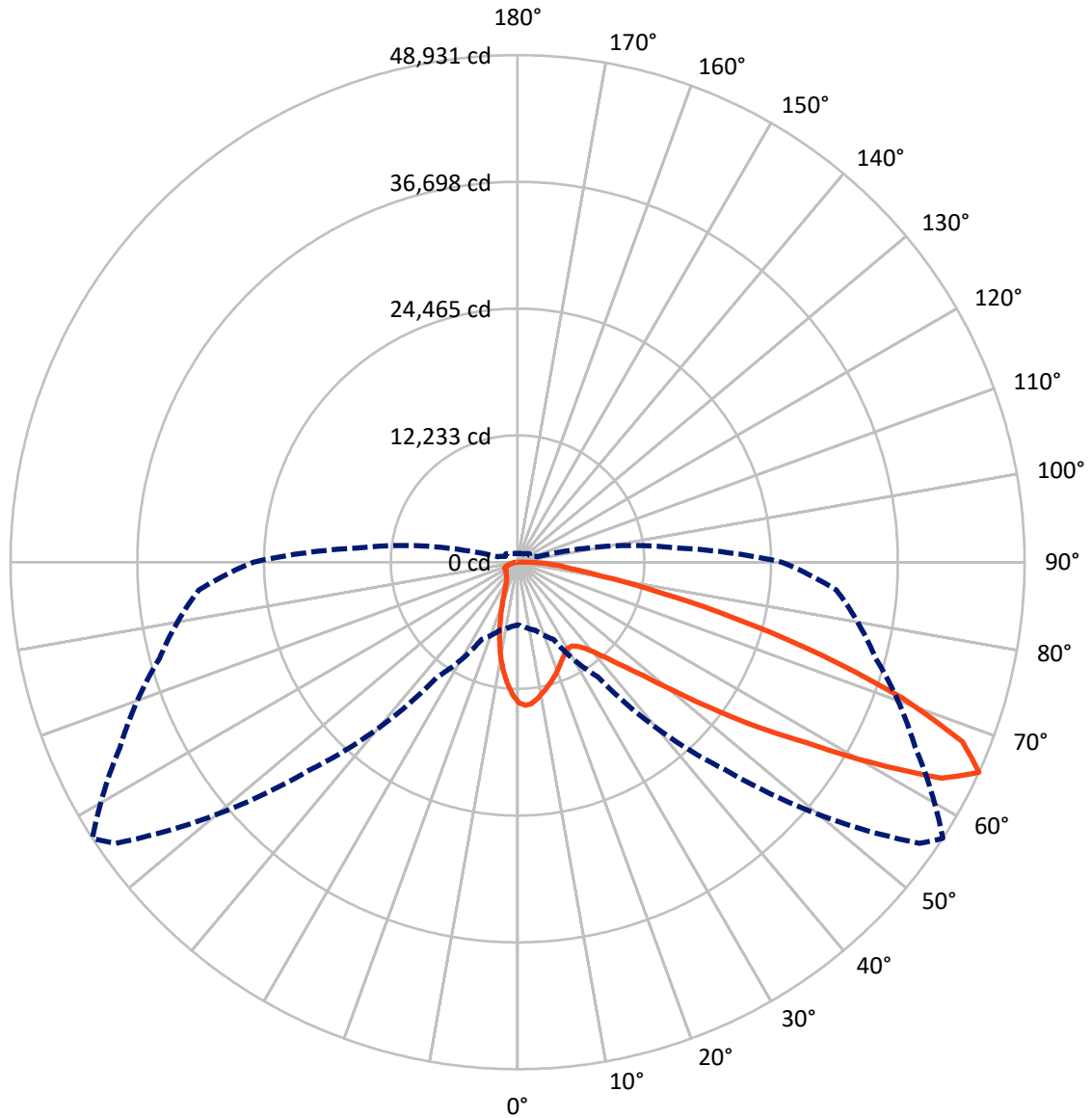
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.1 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	7561.6	0.0	7561.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	41744.9	0.0	41744.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	49306.6	0.0	49306.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1135.4	2.3
10°-20°	2443.6	5.0
20°-30°	3159.4	6.4
30°-40°	4251.5	8.6
40°-50°	6779.2	13.7
50°-60°	11973.7	24.3
60°-70°	13172.7	26.7
70°-80°	5510.4	11.2
80°-90°	880.7	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°	49306.6	100.0
0°-180°	49306.6	100.0

Coefficient of Utilization



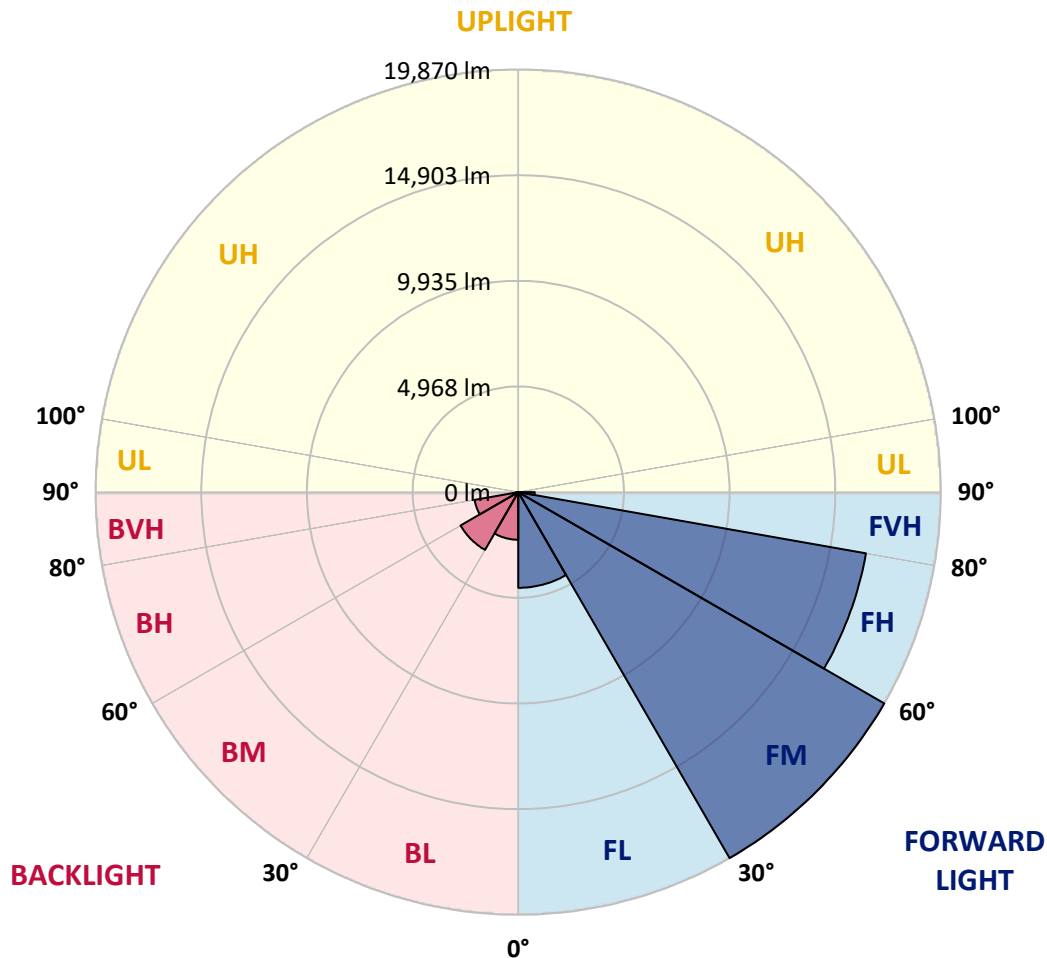
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4499.0	9.1			
FM (30°-60°)	19870.5	40.3			
FH (60°-80°)	16598.1	33.7			G5
FVH (80°-90°)	777.3	1.6			G5
BL (0°-30°)	2239.4	4.5	B3/2500		
BM (30°-60°)	3133.9	6.4	B3/5000		
BH (60°-80°)	2085.0	4.2	B3/2500		G3/2500
BVH (80°-90°)	103.3	0.2			G2/225
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°	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6
2.5°	13924.8	13946.9	13946.9	13991.3	13841.5	13913.7	13902.6	13836.0	13858.2	13741.7	13625.2
5°	13530.9	13514.2	13603.0	13614.1	13730.6	13763.9	13791.6	13747.2	13758.3	13503.1	13392.2
7.5°	12521.2	12515.6	12665.4	12793.0	13037.1	13264.6	13414.4	13370.0	13431.0	13270.1	13009.4
10°	11322.9	11450.5	11605.8	11733.4	12182.8	12471.3	12859.6	12898.4	13131.4	13092.6	12621.0
12.5°	10424.2	10479.6	10596.1	10962.3	11372.8	11849.9	12404.7	12454.6	12682.1	12793.0	12382.5
15°	9686.3	9736.2	9886.0	10157.9	10618.3	11184.2	11888.7	12016.3	12471.3	12510.1	12071.8
17.5°	9148.2	9187.0	9286.9	9558.7	9936.0	10662.7	11328.4	11555.9	12155.0	12343.7	11750.1
20°	8937.4	8854.1	8909.6	9081.6	9458.8	10019.2	10879.1	11078.8	11844.4	12216.1	11444.9
22.5°	8843.1	8770.9	8804.2	8793.1	9092.7	9492.1	10396.4	10607.2	11550.3	12066.3	11173.1
25°	8915.2	8915.2	8881.9	8854.1	8887.4	9148.2	9874.9	10202.2	11156.4	11938.7	10895.7
27.5°	9303.5	9153.7	9170.4	9053.9	9020.6	9020.6	9641.9	9836.1	11028.9	11866.6	10668.3
30°	9553.2	9625.3	9630.8	9458.8	9286.9	8976.2	9425.6	9614.2	10923.4	11955.3	10535.1
32.5°	10191.1	10157.9	10063.5	10030.3	9775.1	9425.6	9531.0	9658.6	10862.4	12155.0	10573.9
35°	10829.1	10812.5	10818.0	10801.4	10535.1	10019.2	9813.9	9985.9	10973.4	12504.5	10707.1
37.5°	11489.3	11533.7	11722.3	11722.3	11439.4	10879.1	10607.2	10557.3	11378.4	13076.0	11023.3
40°	12149.5	12260.4	12499.0	12876.2	12476.8	11955.3	11517.1	11439.4	11866.6	13841.5	11783.3
42.5°	12781.9	12965.0	13436.6	13996.9	13863.7	13342.2	12759.7	12671.0	12870.7	14978.8	12843.0
45°	13591.9	13747.2	14490.6	15350.5	15533.6	15073.1	14390.8	14318.6	14307.5	16643.1	14302.0
47.5°	14823.5	14989.9	15733.3	16598.8	17164.6	17236.7	16471.2	16393.5	16127.2	18890.0	16437.9
50°	16365.8	16637.6	17264.5	18274.2	19095.2	19866.4	19650.0	19422.5	18901.1	21502.9	19145.2
52.5°	17491.9	17824.8	18673.6	19966.2	21414.2	22640.2	23416.9	23416.9	22218.6	24371.1	22401.7
55°	17791.5	17991.2	19061.9	20931.5	23411.3	26512.5	28138.0	28015.9	26168.6	27389.1	26190.7
57.5°	16598.8	16859.5	18157.7	20116.0	24459.9	30135.2	32825.8	32853.6	30484.7	30895.2	29929.9
60°	13314.5	13397.7	14928.9	17547.4	23450.2	33053.3	39227.9	39333.3	35394.4	34018.6	31832.8
62.5°	9203.7	9469.9	10623.9	12920.6	19428.1	32726.0	45402.5	45924.0	39327.7	35666.2	32132.3
65°	6058.1	6219.0	6834.8	8232.8	13525.3	28365.5	47322.0	48930.8	42334.6	35760.6	30878.6
67.5°	4393.8	4421.5	4604.6	5325.8	8127.4	20398.9	44043.3	46312.3	43460.8	34972.8	27938.3
70°	3550.5	3572.7	3639.3	4099.8	5248.1	12765.3	35921.4	39477.5	40082.2	31239.2	22501.5
72.5°	2884.8	2912.5	2995.8	3428.5	4327.2	7101.1	26268.4	30601.2	32603.9	23111.8	14956.6
75°	2269.0	2291.2	2490.9	2918.1	4066.5	4876.4	17425.4	21669.4	21941.2	13508.7	7001.2
77.5°	1553.4	1592.2	1836.3	2474.3	3827.9	4266.2	10862.4	13880.4	12454.6	5287.0	2407.7
80°	987.5	1043.0	1187.2	1875.1	3384.1	4072.0	6757.1	8288.3	5453.4	1808.6	1159.5
82.5°	582.5	638.0	782.2	1214.9	2657.4	3778.0	4759.9	5187.1	2557.5	926.5	699.0
85°	321.8	360.6	471.6	732.3	1558.9	3356.4	3811.3	3722.5	1464.6	493.7	438.3
87.5°	105.4	122.0	172.0	294.0	643.5	1581.1	2285.7	2147.0	760.0	227.5	172.0
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°	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6	13558.6
2.5°	13547.5	13530.9	13281.2	13092.6	12770.8	12504.5	12399.1	12254.9	12249.3	12143.9	12116.2
5°	13220.2	13048.2	12665.4	12299.3	11727.9	11345.1	10995.6	10751.5	10651.6	10435.2	10385.3
7.5°	12798.6	12571.1	11983.1	11295.1	10623.9	10024.7	9481.0	8937.4	8632.2	8526.8	8410.3
10°	12360.3	11960.9	11089.9	10318.7	9381.2	8460.3	7605.9	6840.3	6424.3	6130.2	6002.6
12.5°	12010.8	11478.2	10368.7	9214.7	7977.6	6746.0	5753.0	4948.6	4477.0	4255.1	4155.2
15°	11616.9	10912.3	9580.9	8121.9	6579.6	5181.6	4210.7	3578.3	3389.7	3284.2	3267.6
17.5°	11200.8	10385.3	8726.6	7045.6	5214.8	3900.0	3273.2	3018.0	2934.7	2890.4	2868.2
20°	10812.5	9913.8	7850.0	5847.3	4083.1	3128.9	2834.9	2701.7	2696.2	2718.4	2712.8
22.5°	10263.3	9298.0	6984.6	4737.7	3262.1	2723.9	2535.3	2502.0	2535.3	2563.0	2574.1
25°	9952.6	8793.1	6019.3	3761.3	2696.2	2418.8	2357.8	2346.7	2396.6	2429.9	2424.4
27.5°	9630.8	8271.6	5120.5	3012.4	2363.3	2202.4	2191.3	2202.4	2252.4	2302.3	2296.8
30°	9381.2	7855.6	4277.3	2518.7	2108.1	2047.1	2036.0	2047.1	2074.8	2080.4	2080.4
32.5°	9175.9	7361.8	3561.6	2185.8	1952.8	1902.9	1914.0	1908.4	1914.0	1919.5	1925.1
35°	9053.9	7067.8	2973.6	1980.5	1825.2	1786.4	1780.8	1764.2	1769.7	1775.3	1769.7
37.5°	9314.6	6923.5	2507.6	1836.3	1736.4	1703.1	1692.1	1681.0	1664.3	1664.3	1664.3
40°	9708.5	6845.9	2224.6	1742.0	1669.9	1631.0	1597.7	1586.6	1586.6	1592.2	1597.7
42.5°	10490.7	6973.5	2030.5	1669.9	1586.6	1542.3	1509.0	1514.5	1531.2	1547.8	1536.7
45°	11622.5	7361.8	1941.7	1614.4	1536.7	1475.7	1453.5	1448.0	1464.6	1492.3	1514.5
47.5°	13103.7	7966.5	1908.4	1564.5	1503.4	1420.2	1392.5	1409.1	1431.3	1470.1	1453.5
50°	15528.0	9325.7	1936.2	1520.1	1453.5	1392.5	1359.2	1342.5	1359.2	1386.9	1398.0
52.5°	18695.8	11794.4	2041.6	1497.9	1420.2	1370.3	1314.8	1287.1	1303.7	1325.9	1325.9
55°	22484.9	15167.4	2335.6	1470.1	1364.7	1337.0	1276.0	1220.5	1231.6	1231.6	1226.0
57.5°	25824.6	17713.8	2685.1	1431.3	1331.5	1292.6	1214.9	1148.4	1137.3	1142.8	1148.4
60°	27322.5	18390.7	2851.5	1420.2	1331.5	1237.1	1131.7	1065.2	1048.5	1037.4	1037.4
62.5°	27061.7	17220.1	2513.1	1370.3	1364.7	1192.8	1054.1	981.9	959.8	937.6	943.1
65°	25486.2	15550.2	1980.5	1303.7	1370.3	1165.0	976.4	904.3	865.4	837.7	832.2
67.5°	22606.9	13275.7	1570.0	1253.8	1314.8	1115.1	909.8	826.6	793.3	765.6	754.5
70°	17686.1	10407.5	1364.7	1187.2	1181.7	993.0	832.2	760.0	710.1	676.8	676.8
72.5°	11467.1	6579.6	1170.6	1054.1	1020.8	832.2	721.2	676.8	638.0	610.2	610.2
75°	5192.7	3056.8	943.1	882.1	832.2	665.7	610.2	588.1	554.8	527.0	527.0
77.5°	1864.0	1303.7	704.6	693.5	621.3	515.9	493.7	477.1	454.9	427.2	427.2
80°	1043.0	826.6	527.0	504.8	432.7	382.8	355.1	355.1	344.0	327.3	321.8
82.5°	660.2	538.1	388.3	338.4	282.9	255.2	244.1	238.6	233.0	210.8	205.3
85°	416.1	366.1	255.2	199.7	166.4	127.6	122.0	116.5	105.4	94.3	94.3
87.5°	188.6	210.8	99.9	61.0	44.4	27.7	16.6	5.5	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)