

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: P480484

Luminaire Tested: **IFLD-L-SA7C-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480484
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

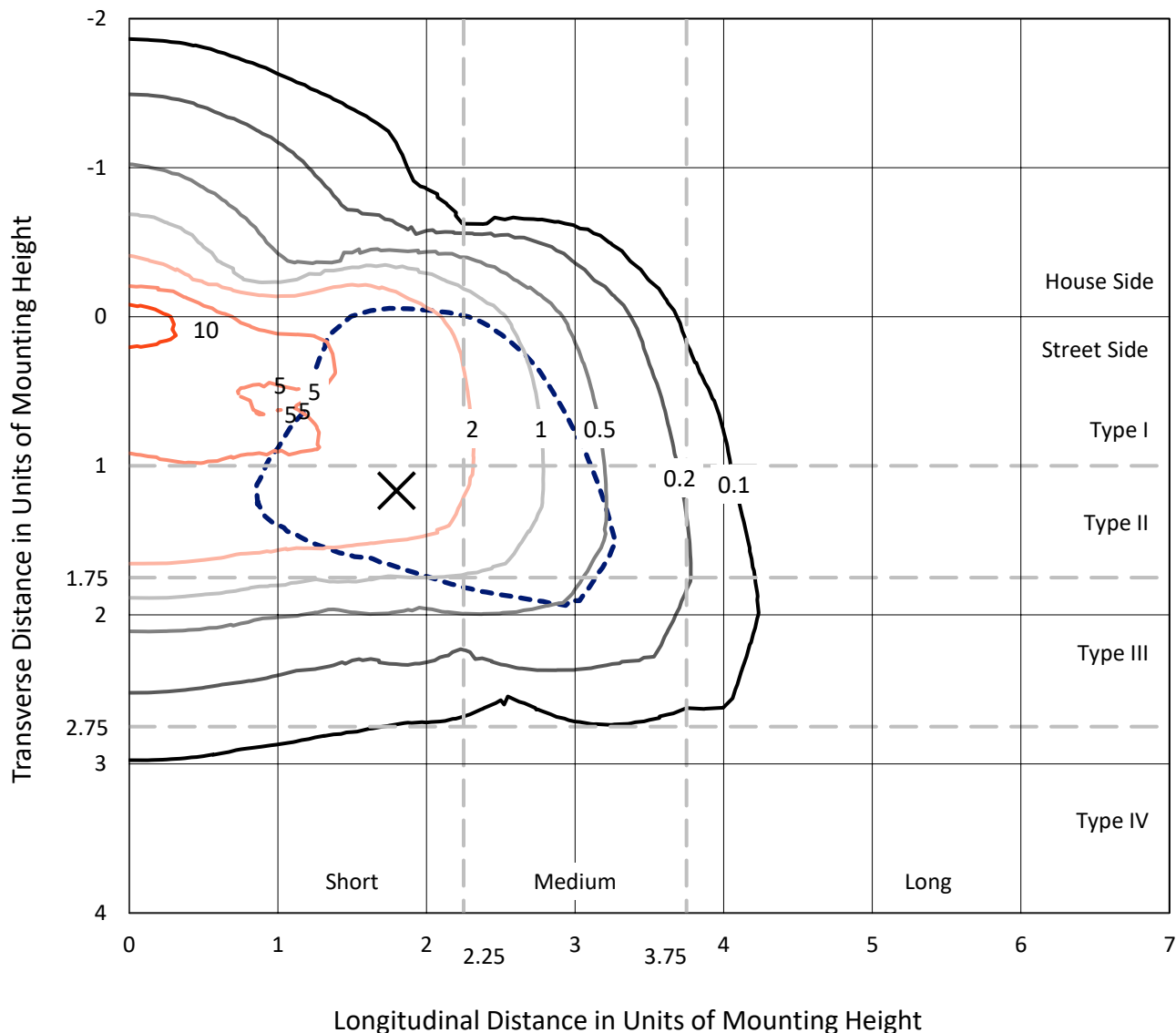
Lumens per Lamp: N/A
Luminaire Lumens: 43143.1 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 369
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

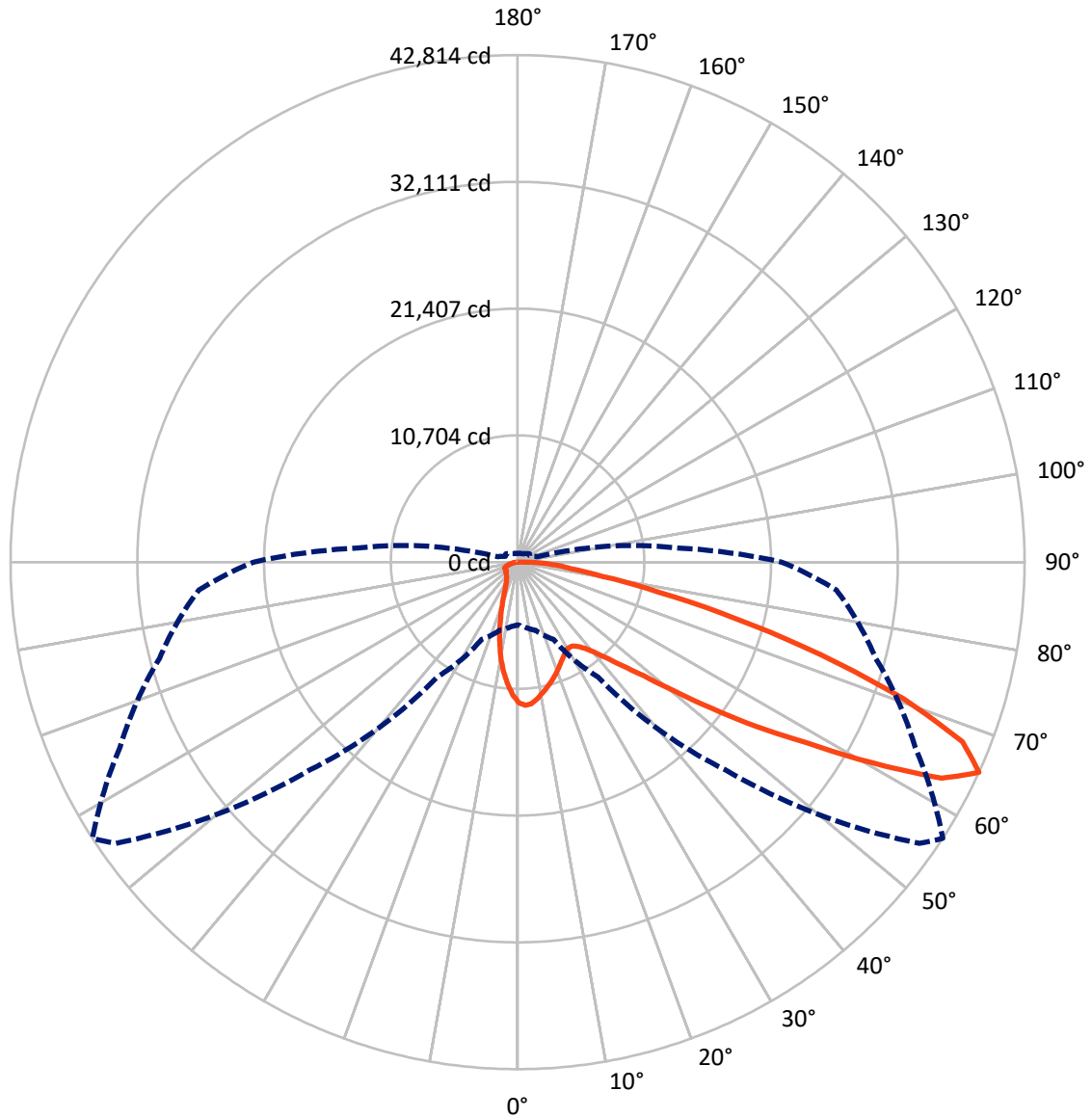
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.2 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	6616.4	0.0	6616.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	36526.7	0.0	36526.7
	% Fixture	84.7	0.0	84.7
Total	Lumens	43143.1	0.0	43143.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	993.5	2.3
10°-20°	2138.2	5.0
20°-30°	2764.5	6.4
30°-40°	3720.1	8.6
40°-50°	5931.8	13.7
50°-60°	10477.0	24.3
60°-70°	11526.1	26.7
70°-80°	4821.5	11.2
80°-90°	770.6	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°	43143.1	100.0
0°-180°	43143.1	100.0

Coefficient of Utilization



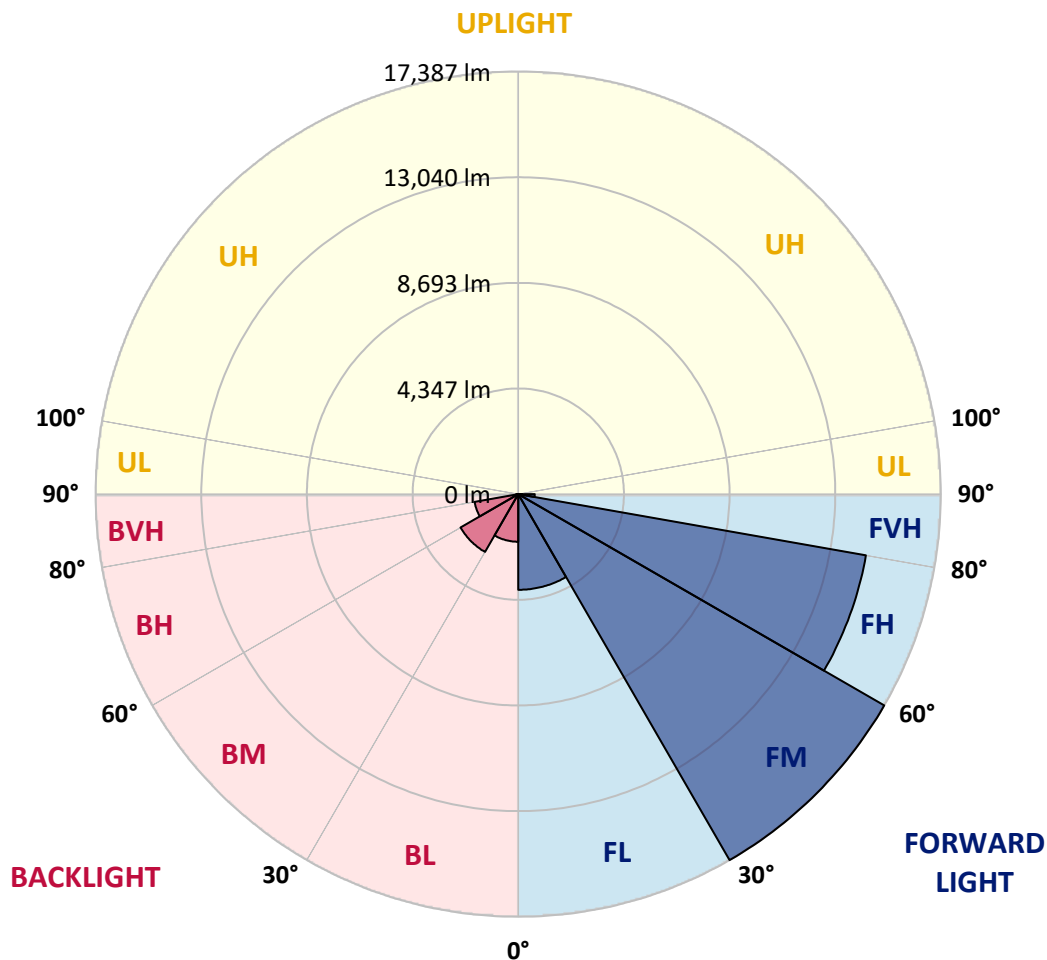
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3936.7	9.1			
FM (30°-60°)	17386.6	40.3			
FH (60°-80°)	14523.3	33.7			G5
FVH (80°-90°)	680.2	1.6			G4/750
BL (0°-30°)	1959.5	4.5	B3/2500		
BM (30°-60°)	2742.2	6.4	B3/5000		
BH (60°-80°)	1824.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	90.4	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°	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7
2.5°	12184.1	12203.5	12203.5	12242.4	12111.3	12174.4	12164.7	12106.5	12125.9	12023.9	11922.0
5°	11839.5	11824.9	11902.6	11912.3	12014.2	12043.4	12067.6	12028.8	12038.5	11815.2	11718.1
7.5°	10956.0	10951.2	11082.2	11193.9	11407.5	11606.5	11737.5	11698.7	11752.1	11611.3	11383.2
10°	9907.5	10019.1	10155.1	10266.7	10659.9	10912.3	11252.1	11286.1	11490.0	11456.0	11043.4
12.5°	9121.1	9169.6	9271.6	9592.0	9951.2	10368.6	10854.1	10897.8	11096.8	11193.9	10834.7
15°	8475.5	8519.2	8650.2	8888.1	9291.0	9786.1	10402.6	10514.3	10912.3	10946.3	10562.8
17.5°	8004.6	8038.6	8126.0	8363.8	8693.9	9329.8	9912.3	10111.4	10635.6	10800.7	10281.3
20°	7820.2	7747.4	7795.9	7946.4	8276.5	8766.7	9519.2	9693.9	10363.8	10689.0	10014.3
22.5°	7737.7	7674.5	7703.7	7694.0	7956.1	8305.6	9096.8	9281.3	10106.5	10558.0	9776.4
25°	7800.8	7800.8	7771.6	7747.4	7776.5	8004.6	8640.5	8926.9	9761.9	10446.3	9533.7
27.5°	8140.6	8009.5	8024.1	7922.1	7893.0	7893.0	8436.7	8606.6	9650.2	10383.2	9334.7
30°	8359.0	8422.1	8427.0	8276.5	8126.0	7854.2	8247.3	8412.4	9558.0	10460.9	9218.2
32.5°	8917.2	8888.1	8805.6	8776.5	8553.2	8247.3	8339.6	8451.2	9504.6	10635.6	9252.2
35°	9475.5	9460.9	9465.8	9451.2	9218.2	8766.7	8587.1	8737.6	9601.7	10941.4	9368.7
37.5°	10053.1	10092.0	10257.0	10257.0	10009.4	9519.2	9281.3	9237.6	9956.0	11441.4	9645.4
40°	10630.8	10727.9	10936.6	11266.7	10917.2	10460.9	10077.4	10009.4	10383.2	12111.3	10310.4
42.5°	11184.2	11344.3	11757.0	12247.2	12130.7	11674.4	11164.7	11087.1	11261.8	13106.4	11237.6
45°	11892.9	12028.8	12679.3	13431.7	13591.9	13189.0	12591.9	12528.8	12519.1	14562.7	12514.2
47.5°	12970.5	13116.1	13766.6	14523.9	15019.0	15082.1	14412.2	14344.3	14111.3	16528.7	14383.1
50°	14320.0	14557.9	15106.4	15989.8	16708.3	17383.0	17193.7	16994.7	16538.4	18815.0	16752.0
52.5°	15305.4	15596.7	16339.4	17470.4	18737.3	19810.1	20489.7	20489.7	19441.2	21324.7	19601.4
55°	15567.5	15742.3	16679.2	18315.0	20484.9	23198.4	24620.7	24513.9	22897.4	23965.4	22916.8
57.5°	14523.9	14752.0	15887.9	17601.5	21402.3	26368.2	28722.5	28746.8	26674.0	27033.2	26188.6
60°	11650.2	11723.0	13062.7	15353.9	20518.9	28921.5	34324.3	34416.5	30970.0	29766.2	27853.6
62.5°	8053.2	8286.2	9295.9	11305.5	16999.5	28635.1	39727.1	40183.4	34411.7	31207.9	28115.7
65°	5300.8	5441.6	5980.4	7203.7	11834.6	24819.7	41406.6	42814.4	37042.7	31290.4	27018.7
67.5°	3844.6	3868.8	4029.0	4660.1	7111.5	17849.0	38537.8	40523.2	38028.1	30601.1	24445.9
70°	3106.7	3126.1	3184.4	3587.3	4592.1	11169.6	31431.2	34542.7	35071.8	27334.2	19688.8
72.5°	2524.2	2548.5	2621.3	2999.9	3786.3	6213.4	22984.8	26776.0	28528.3	20222.7	13087.0
75°	1985.4	2004.8	2179.6	2553.3	3558.2	4266.9	15247.2	18960.6	19198.5	11820.1	6126.0
77.5°	1359.2	1393.2	1606.8	2165.0	3349.4	3732.9	9504.6	12145.3	10897.8	4626.1	2106.7
80°	864.1	912.6	1038.8	1640.7	2961.1	3563.0	5912.5	7252.2	4771.7	1582.5	1014.5
82.5°	509.7	558.2	684.4	1063.1	2325.2	3305.7	4164.9	4538.7	2237.8	810.7	611.6
85°	281.5	315.5	412.6	640.8	1364.0	2936.8	3334.9	3257.2	1281.5	432.0	383.5
87.5°	92.2	106.8	150.5	257.3	563.1	1383.5	1999.9	1878.6	665.0	199.0	150.5
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°	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7	11863.7
2.5°	11854.0	11839.5	11621.0	11456.0	11174.4	10941.4	10849.2	10723.0	10718.2	10625.9	10601.6
5°	11567.6	11417.2	11082.2	10761.8	10261.9	9926.9	9621.1	9407.5	9320.1	9130.8	9087.1
7.5°	11198.7	10999.7	10485.1	9883.2	9295.9	8771.6	8295.9	7820.2	7553.2	7461.0	7359.0
10°	10815.2	10465.7	9703.6	9028.9	8208.5	7402.7	6655.2	5985.3	5621.2	5363.9	5252.3
12.5°	10509.4	10043.4	9072.6	8062.9	6980.4	5902.7	5033.8	4330.0	3917.4	3723.2	3635.8
15°	10164.8	9548.3	8383.3	7106.6	5757.1	4533.9	3684.4	3131.0	2965.9	2873.7	2859.1
17.5°	9800.7	9087.1	7635.7	6164.9	4563.0	3412.5	2864.0	2640.7	2567.9	2529.1	2509.6
20°	9460.9	8674.5	6868.7	5116.4	3572.7	2737.8	2480.5	2364.0	2359.2	2378.6	2373.7
22.5°	8980.3	8135.7	6111.5	4145.5	2854.3	2383.4	2218.4	2189.3	2218.4	2242.7	2252.4
25°	8708.5	7694.0	5266.8	3291.2	2359.2	2116.4	2063.0	2053.3	2097.0	2126.2	2121.3
27.5°	8427.0	7237.7	4480.5	2635.8	2067.9	1927.1	1917.4	1927.1	1970.8	2014.5	2009.7
30°	8208.5	6873.6	3742.6	2203.8	1844.6	1791.2	1781.5	1791.2	1815.5	1820.3	1820.3
32.5°	8028.9	6441.6	3116.4	1912.6	1708.7	1665.0	1674.7	1669.9	1674.7	1679.6	1684.4
35°	7922.1	6184.3	2601.9	1733.0	1597.0	1563.1	1558.2	1543.6	1548.5	1553.4	1548.5
37.5°	8150.3	6058.1	2194.1	1606.8	1519.4	1490.3	1480.5	1470.8	1456.3	1456.3	1456.3
40°	8494.9	5990.1	1946.5	1524.2	1461.1	1427.1	1398.0	1388.3	1388.3	1393.2	1398.0
42.5°	9179.4	6101.8	1776.6	1461.1	1388.3	1349.5	1320.4	1325.2	1339.8	1354.3	1344.6
45°	10169.6	6441.6	1699.0	1412.6	1344.6	1291.2	1271.8	1267.0	1281.5	1305.8	1325.2
47.5°	11465.7	6970.7	1669.9	1368.9	1315.5	1242.7	1218.4	1233.0	1252.4	1286.4	1271.8
50°	13587.0	8160.0	1694.1	1330.1	1271.8	1218.4	1189.3	1174.7	1189.3	1213.6	1223.3
52.5°	16358.8	10320.1	1786.4	1310.6	1242.7	1199.0	1150.5	1126.2	1140.7	1160.2	1160.2
55°	19674.2	13271.5	2043.6	1286.4	1194.1	1169.9	1116.5	1067.9	1077.6	1077.6	1072.8
57.5°	22596.5	15499.6	2349.4	1252.4	1165.0	1131.0	1063.1	1004.8	995.1	1000.0	1004.8
60°	23907.1	16091.8	2495.1	1242.7	1165.0	1082.5	990.3	932.0	917.5	907.7	907.7
62.5°	23679.0	15067.5	2199.0	1199.0	1194.1	1043.7	922.3	859.2	839.8	820.4	825.2
65°	22300.4	13606.4	1733.0	1140.7	1199.0	1019.4	854.3	791.2	757.3	733.0	728.1
67.5°	19781.0	11616.2	1373.7	1097.1	1150.5	975.7	796.1	723.3	694.2	669.9	660.2
70°	15475.3	9106.5	1194.1	1038.8	1034.0	868.9	728.1	665.0	621.3	592.2	592.2
72.5°	10033.7	5757.1	1024.2	922.3	893.2	728.1	631.1	592.2	558.2	534.0	534.0
75°	4543.6	2674.7	825.2	771.8	728.1	582.5	534.0	514.5	485.4	461.2	461.2
77.5°	1631.0	1140.7	616.5	606.8	543.7	451.4	432.0	417.5	398.0	373.8	373.8
80°	912.6	723.3	461.2	441.7	378.6	334.9	310.7	310.7	301.0	286.4	281.5
82.5°	577.7	470.9	339.8	296.1	247.6	223.3	213.6	208.7	203.9	184.5	179.6
85°	364.1	320.4	223.3	174.8	145.6	111.6	106.8	101.9	92.2	82.5	82.5
87.5°	165.0	184.5	87.4	53.4	38.8	24.3	14.6	4.9	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)