

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: P480475

Luminaire Tested: **IFLD-S-SA6D-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480475
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

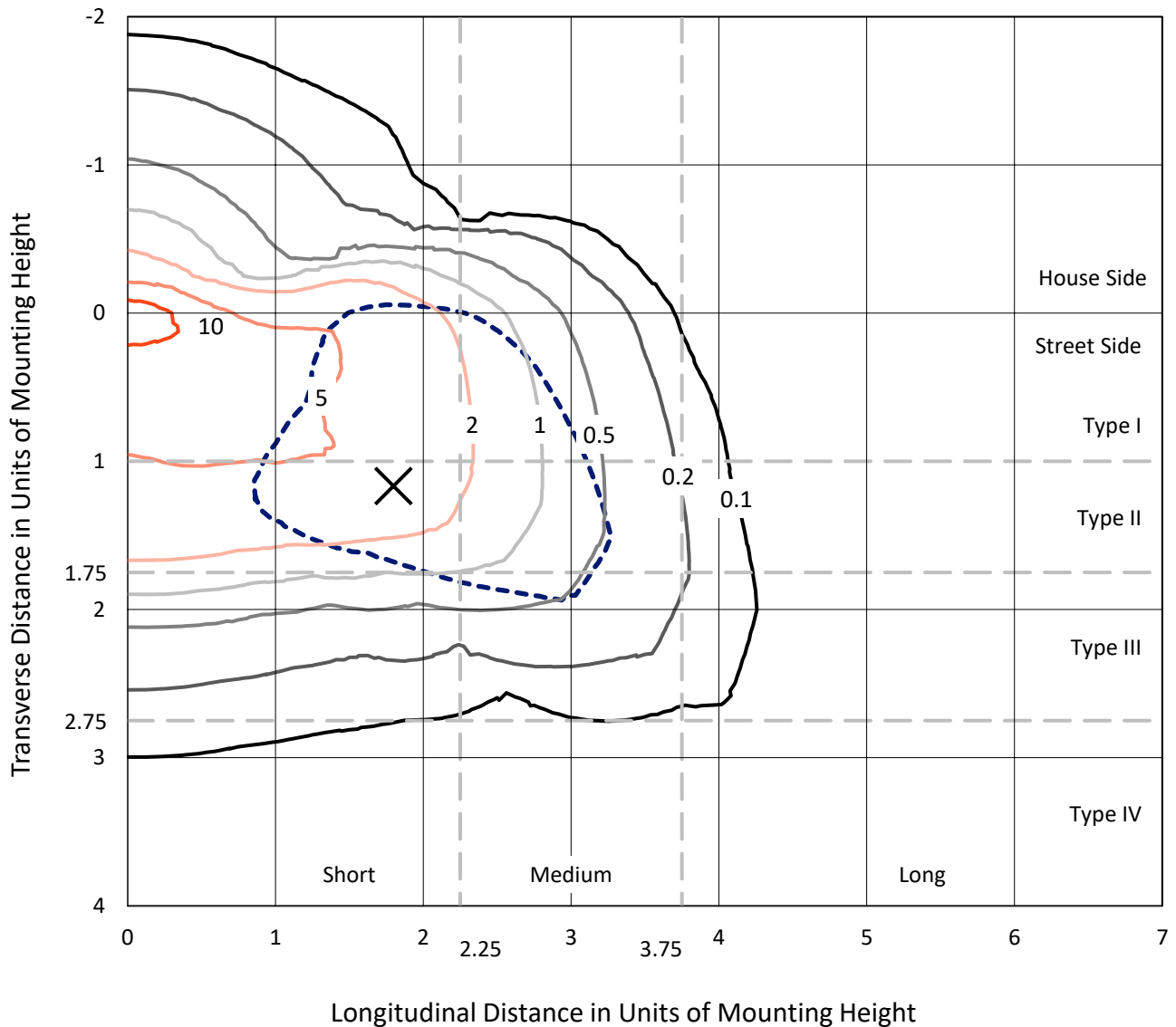
Lumens per Lamp: N/A
Luminaire Lumens: 44496.8 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

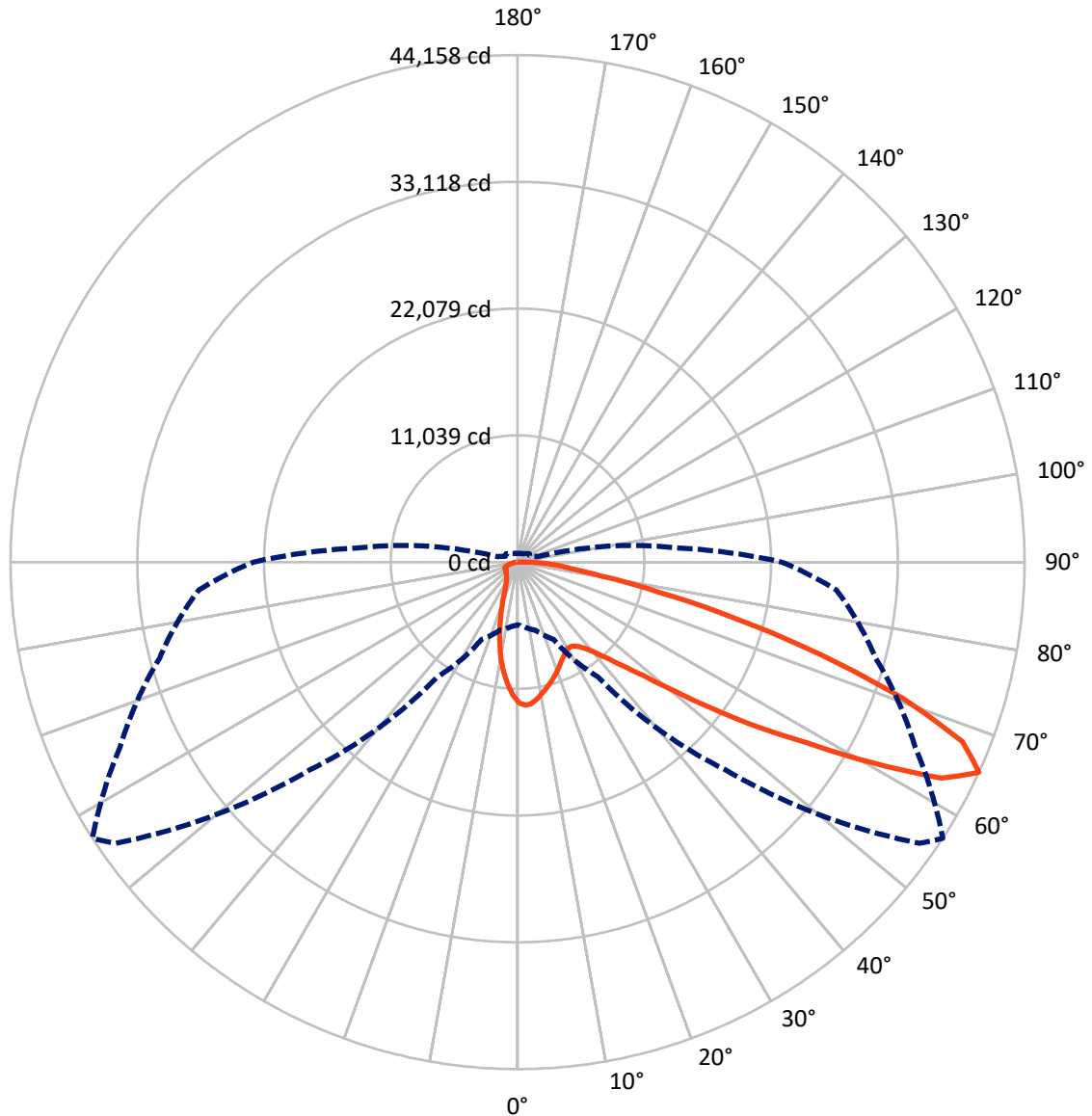
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 13.6 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	6824.0	0.0	6824.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	37672.8	0.0	37672.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	44496.8	0.0	44496.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1024.7	2.3
10°-20°	2205.3	5.0
20°-30°	2851.2	6.4
30°-40°	3836.8	8.6
40°-50°	6117.9	13.7
50°-60°	10805.7	24.3
60°-70°	11887.7	26.7
70°-80°	4972.8	11.2
80°-90°	794.8	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°	44496.8	100.0
0°-180°	44496.8	100.0

Coefficient of Utilization



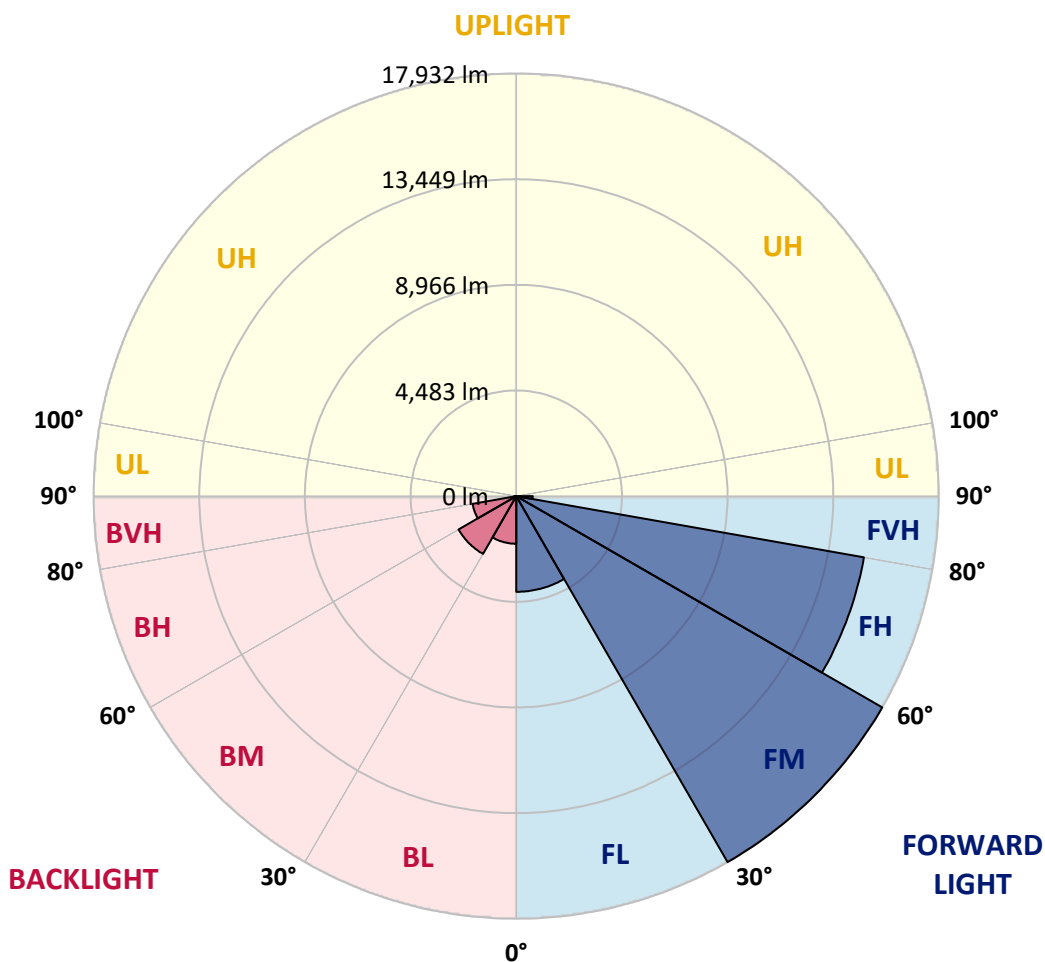
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4060.2	9.1			
FM (30°-60°)	17932.2	40.3			
FH (60°-80°)	14979.0	33.7			G5
FVH (80°-90°)	701.5	1.6			G4/750
BL (0°-30°)	2020.9	4.5	B3/2500		
BM (30°-60°)	2828.2	6.4	B3/5000		
BH (60°-80°)	1881.6	4.2	B3/2500		G3/2500
BVH (80°-90°)	93.2	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°	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0
2.5°	12566.4	12586.5	12586.5	12626.5	12491.3	12556.4	12546.4	12486.3	12506.4	12401.2	12296.1
5°	12211.0	12195.9	12276.1	12286.1	12391.2	12421.2	12446.3	12406.2	12416.2	12185.9	12085.8
7.5°	11299.8	11294.8	11429.9	11545.1	11765.4	11970.7	12105.8	12065.8	12120.9	11975.7	11740.4
10°	10218.4	10333.5	10473.7	10588.8	10994.4	11254.7	11605.2	11640.2	11850.5	11815.5	11389.9
12.5°	9407.3	9457.4	9562.5	9892.9	10263.4	10694.0	11194.6	11239.7	11445.0	11545.1	11174.6
15°	8741.4	8786.5	8921.7	9167.0	9582.5	10093.2	10729.0	10844.2	11254.7	11289.8	10894.2
17.5°	8255.8	8290.8	8381.0	8626.3	8966.7	9622.6	10223.4	10428.6	10969.3	11139.6	10603.9
20°	8065.5	7990.4	8040.5	8195.7	8536.2	9041.8	9817.8	9998.1	10689.0	11024.4	10328.5
22.5°	7980.4	7915.4	7945.4	7935.4	8205.7	8566.2	9382.3	9572.5	10423.6	10889.2	10083.2
25°	8045.5	8045.5	8015.5	7990.4	8020.5	8255.8	8911.7	9207.0	10068.2	10774.1	9832.9
27.5°	8396.0	8260.8	8275.8	8170.7	8140.6	8140.6	8701.4	8876.6	9953.0	10709.0	9627.6
30°	8621.3	8686.4	8691.4	8536.2	8381.0	8100.6	8506.1	8676.3	9857.9	10789.1	9507.4
32.5°	9197.0	9167.0	9081.9	9051.8	8821.5	8506.1	8601.2	8716.4	9802.8	10969.3	9542.5
35°	9772.8	9757.8	9762.8	9747.7	9507.4	9041.8	8856.6	9011.8	9903.0	11284.8	9662.6
37.5°	10368.6	10408.6	10578.8	10578.8	10323.5	9817.8	9572.5	9527.5	10268.4	11800.4	9948.0
40°	10964.3	11064.5	11279.8	11620.2	11259.7	10789.1	10393.6	10323.5	10709.0	12491.3	10633.9
42.5°	11535.1	11700.3	12125.9	12631.5	12511.4	12040.7	11515.1	11435.0	11615.2	13517.7	11590.2
45°	12266.0	12406.2	13077.1	13853.1	14018.3	13602.8	12987.0	12921.9	12911.9	15019.6	12906.9
47.5°	13377.5	13527.7	14198.6	14979.6	15490.3	15555.3	14864.4	14794.3	14554.0	17047.3	14834.4
50°	14769.3	15014.6	15580.4	16491.6	17232.5	17928.4	17733.2	17527.9	17057.3	19405.4	17277.6
52.5°	15785.6	16086.0	16852.0	18018.6	19325.3	20431.7	21132.6	21132.6	20051.2	21993.8	20216.4
55°	16056.0	16236.2	17202.5	18889.7	21127.6	23926.3	25393.2	25283.1	23615.9	24717.3	23635.9
57.5°	14979.6	15214.9	16386.4	18153.7	22073.9	27195.6	29623.7	29648.8	27511.0	27881.5	27010.3
60°	12015.7	12090.8	13472.6	15835.7	21162.7	29829.0	35401.3	35496.4	31941.8	30700.1	28727.6
62.5°	8305.9	8546.2	9587.5	11660.2	17532.9	29533.6	40973.6	41444.2	35491.4	32187.1	28997.9
65°	5467.1	5612.3	6168.1	7429.7	12206.0	25598.5	42705.9	44157.7	38205.0	32272.2	27866.4
67.5°	3965.2	3990.2	4155.4	4806.3	7334.6	18409.1	39747.0	41794.7	39221.3	31561.3	25213.0
70°	3204.2	3224.2	3284.3	3699.8	4736.2	11520.1	32417.4	35626.6	36172.3	28191.9	20306.6
72.5°	2603.4	2628.4	2703.5	3094.0	3905.1	6408.4	23706.0	27616.1	29423.5	20857.3	13497.7
75°	2047.7	2067.7	2247.9	2633.4	3669.8	4400.8	15725.6	19555.6	19800.9	12190.9	6318.3
77.5°	1401.8	1436.9	1657.2	2232.9	3454.5	3850.0	9802.8	12526.4	11239.7	4771.2	2172.8
80°	891.2	941.2	1071.4	1692.2	3054.0	3674.8	6098.0	7479.8	4921.4	1632.1	1046.4
82.5°	525.7	575.8	705.9	1096.4	2398.1	3409.5	4295.6	4681.1	2308.0	836.1	630.8
85°	290.4	325.4	425.6	660.9	1406.8	3029.0	3439.5	3359.4	1321.7	445.6	395.5
87.5°	95.1	110.1	155.2	265.3	580.8	1426.9	2062.7	1937.5	685.9	205.3	155.2
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°	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0	12236.0
2.5°	12226.0	12211.0	11985.7	11815.5	11525.1	11284.8	11189.6	11059.5	11054.5	10959.3	10934.3
5°	11930.6	11775.4	11429.9	11099.5	10583.8	10238.4	9923.0	9702.7	9612.6	9417.3	9372.3
7.5°	11550.1	11344.8	10814.1	10193.3	9587.5	9046.8	8556.2	8065.5	7790.2	7695.1	7589.9
10°	11154.6	10794.1	10008.1	9312.2	8466.1	7635.0	6864.0	6173.1	5797.6	5532.2	5417.1
12.5°	10839.2	10358.5	9357.2	8315.9	7199.4	6088.0	5191.8	4465.8	4040.3	3840.0	3749.9
15°	10483.7	9847.9	8646.3	7329.6	5937.8	4676.1	3800.0	3229.2	3059.0	2963.9	2948.9
17.5°	10108.2	9372.3	7875.3	6358.3	4706.2	3519.6	2953.9	2723.6	2648.5	2608.4	2588.4
20°	9757.8	8946.7	7084.3	5276.9	3684.8	2823.7	2558.3	2438.2	2433.2	2453.2	2448.2
22.5°	9262.1	8391.0	6303.2	4275.6	2943.8	2458.2	2288.0	2258.0	2288.0	2313.0	2323.0
25°	8981.7	7935.4	5432.1	3394.4	2433.2	2182.9	2127.8	2117.8	2162.8	2192.9	2187.9
27.5°	8691.4	7464.8	4621.0	2718.6	2132.8	1987.6	1977.6	1987.6	2032.7	2077.7	2072.7
30°	8466.1	7089.3	3860.0	2273.0	1902.5	1847.4	1837.4	1847.4	1872.4	1877.5	1877.5
32.5°	8280.8	6643.7	3214.2	1972.6	1762.3	1717.2	1727.3	1722.3	1727.3	1732.3	1737.3
35°	8170.7	6378.3	2683.5	1787.3	1647.2	1612.1	1607.1	1592.1	1597.1	1602.1	1597.1
37.5°	8406.0	6248.2	2263.0	1657.2	1567.0	1537.0	1527.0	1517.0	1502.0	1502.0	1502.0
40°	8761.5	6178.1	2007.6	1572.1	1507.0	1471.9	1441.9	1431.9	1431.9	1436.9	1441.9
42.5°	9467.4	6293.2	1832.4	1507.0	1431.9	1391.8	1361.8	1366.8	1381.8	1396.8	1386.8
45°	10488.7	6643.7	1752.3	1456.9	1386.8	1331.7	1311.7	1306.7	1321.7	1346.8	1366.8
47.5°	11825.5	7189.4	1722.3	1411.8	1356.8	1281.7	1256.6	1271.7	1291.7	1326.7	1311.7
50°	14013.3	8416.0	1747.3	1371.8	1311.7	1256.6	1226.6	1211.6	1226.6	1251.6	1261.6
52.5°	16872.1	10643.9	1842.4	1351.8	1281.7	1236.6	1186.6	1161.5	1176.5	1196.6	1196.6
55°	20291.5	13687.9	2107.8	1326.7	1231.6	1206.6	1151.5	1101.4	1111.5	1111.5	1106.4
57.5°	23305.5	15985.9	2423.2	1291.7	1201.6	1166.5	1096.4	1036.4	1026.3	1031.3	1036.4
60°	24657.2	16596.7	2573.4	1281.7	1201.6	1116.5	1021.3	961.3	946.2	936.2	936.2
62.5°	24421.9	15540.3	2268.0	1236.6	1231.6	1076.4	951.2	886.2	866.1	846.1	851.1
65°	23000.1	14033.4	1787.3	1176.5	1236.6	1051.4	881.2	816.1	781.0	756.0	751.0
67.5°	20401.7	11980.7	1416.9	1131.5	1186.6	1006.3	821.1	746.0	715.9	690.9	680.9
70°	15960.9	9392.3	1231.6	1071.4	1066.4	896.2	751.0	685.9	640.8	610.8	610.8
72.5°	10348.5	5937.8	1056.4	951.2	921.2	751.0	650.9	610.8	575.8	550.7	550.7
75°	4686.1	2758.6	851.1	796.0	751.0	600.8	550.7	530.7	500.7	475.6	475.6
77.5°	1682.2	1176.5	635.8	625.8	560.7	465.6	445.6	430.6	410.5	385.5	385.5
80°	941.2	746.0	475.6	455.6	390.5	345.5	320.4	320.4	310.4	295.4	290.4
82.5°	595.8	485.6	350.5	305.4	255.3	230.3	220.3	215.3	210.3	190.2	185.2
85°	375.5	330.4	230.3	180.2	150.2	115.2	110.1	105.1	95.1	85.1	85.1
87.5°	170.2	190.2	90.1	55.1	40.1	25.0	15.0	5.0	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)