

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: P480483

Luminaire Tested: **IFLD-L-SA7B-735-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480483
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-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

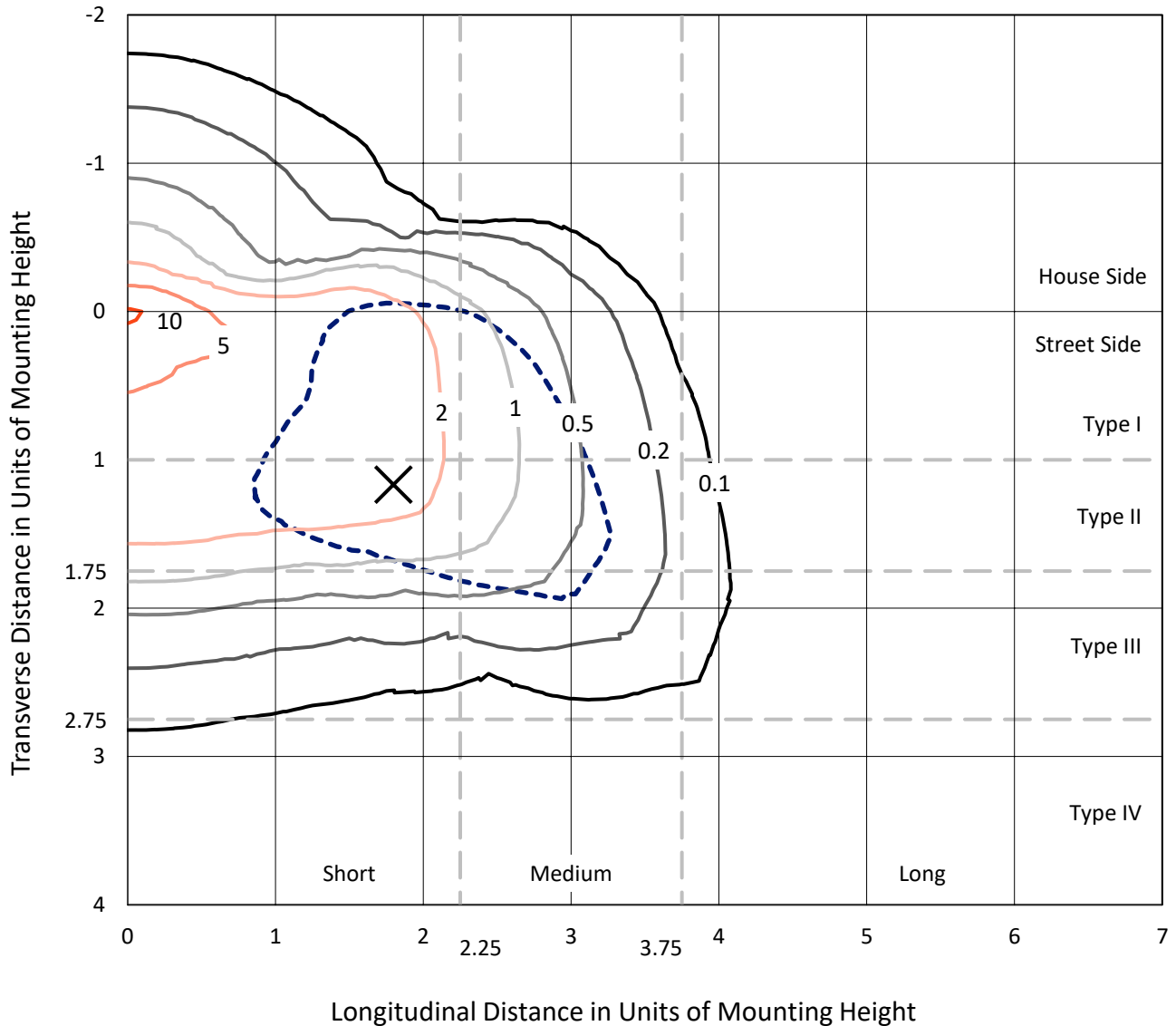
Lumens per Lamp: N/A
Luminaire Lumens: 34658 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

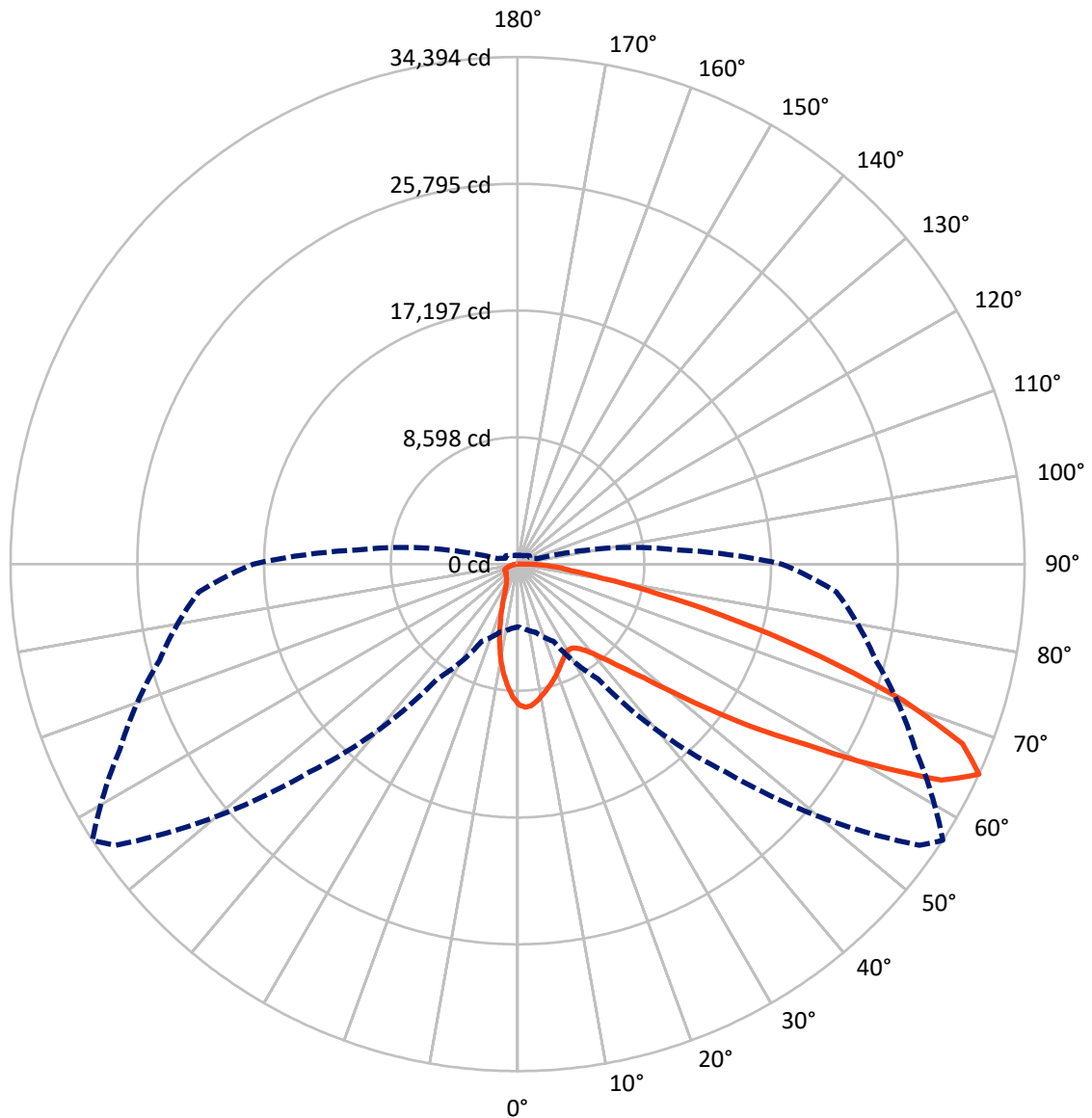
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.6 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	5315.1	0.0	5315.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	29342.8	0.0	29342.8
	% Fixture	84.7	0.0	84.7
Total	Lumens	34658.0	0.0	34658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.1	2.3
10°-20°	1717.6	5.0
20°-30°	2220.8	6.4
30°-40°	2988.4	8.6
40°-50°	4765.2	13.7
50°-60°	8416.4	24.3
60°-70°	9259.2	26.7
70°-80°	3873.3	11.2
80°-90°	619.0	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°	34658.0	100.0
0°-180°	34658.0	100.0

Coefficient of Utilization



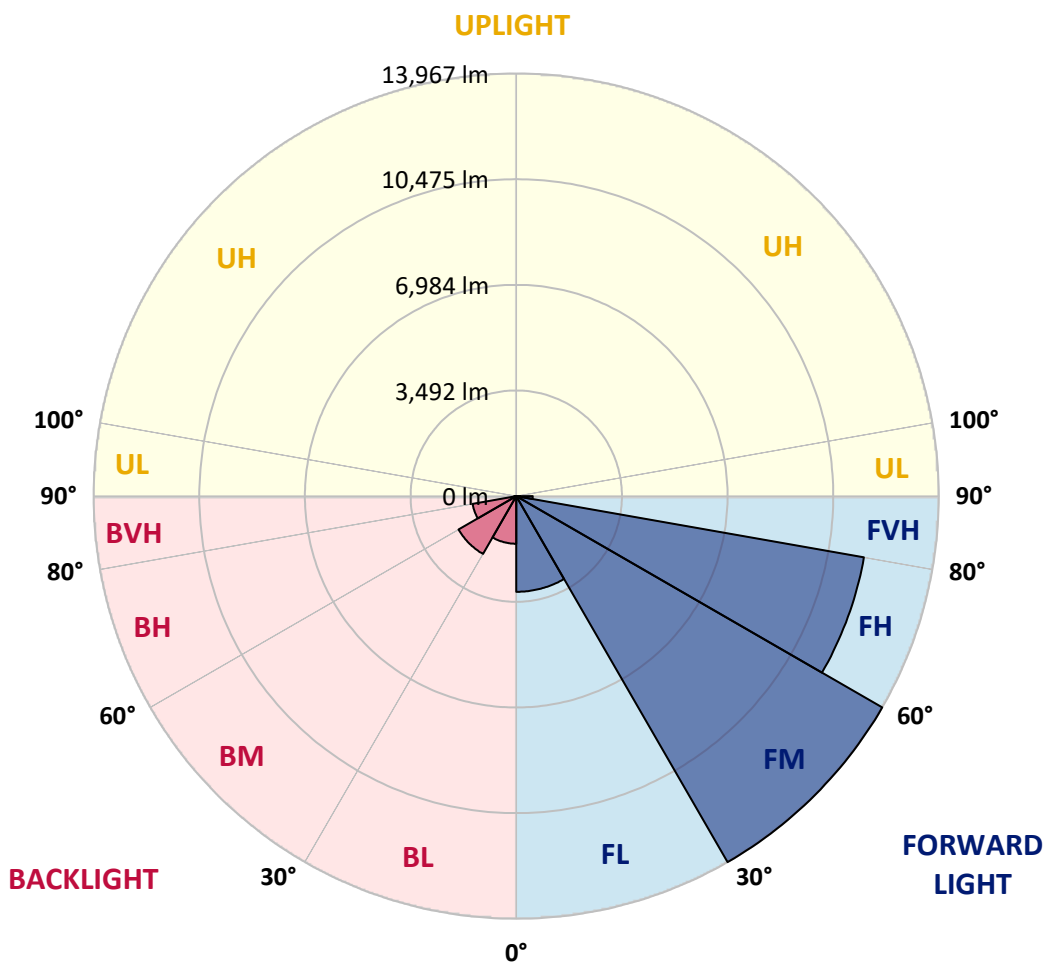
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3162.4	9.1			
FM (30°-60°)	13967.1	40.3			
FH (60°-80°)	11666.9	33.7			G4/12000
FVH (80°-90°)	546.4	1.6			G4/750
BL (0°-30°)	1574.1	4.5	B3/2500		
BM (30°-60°)	2202.9	6.4	B2/2500		
BH (60°-80°)	1465.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	72.6	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-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4
2.5°	9787.8	9803.4	9803.4	9834.6	9729.3	9780.0	9772.2	9725.4	9741.0	9659.1	9577.2
5°	9510.9	9499.2	9561.6	9569.4	9651.3	9674.7	9694.2	9663.0	9670.8	9491.5	9413.5
7.5°	8801.2	8797.3	8902.6	8992.3	9163.9	9323.8	9429.1	9397.9	9440.8	9327.7	9144.4
10°	7958.9	8048.6	8157.8	8247.5	8563.4	8766.1	9039.1	9066.4	9230.2	9202.9	8871.4
12.5°	7327.2	7366.2	7448.1	7705.5	7994.0	8329.4	8719.3	8754.4	8914.3	8992.3	8703.7
15°	6808.6	6843.7	6949.0	7140.0	7463.7	7861.4	8356.7	8446.4	8766.1	8793.4	8485.4
17.5°	6430.3	6457.6	6527.8	6718.9	6984.1	7494.9	7962.8	8122.7	8543.9	8676.4	8259.2
20°	6282.1	6223.6	6262.6	6383.5	6648.7	7042.5	7647.0	7787.4	8325.5	8586.8	8044.7
22.5°	6215.8	6165.2	6188.6	6180.8	6391.3	6672.1	7307.7	7455.9	8118.8	8481.5	7853.6
25°	6266.5	6266.5	6243.1	6223.6	6247.0	6430.3	6941.2	7171.2	7842.0	8391.8	7658.7
27.5°	6539.5	6434.2	6445.9	6364.0	6340.6	6340.6	6777.4	6913.9	7752.3	8341.1	7498.8
30°	6715.0	6765.7	6769.6	6648.7	6527.8	6309.4	6625.3	6757.9	7678.2	8403.5	7405.2
32.5°	7163.4	7140.0	7073.7	7050.3	6871.0	6625.3	6699.4	6789.1	7635.3	8543.9	7432.5
35°	7611.9	7600.2	7604.1	7592.4	7405.2	7042.5	6898.3	7019.1	7713.3	8789.5	7526.1
37.5°	8075.9	8107.1	8239.7	8239.7	8040.8	7647.0	7455.9	7420.8	7997.9	9191.2	7748.4
40°	8540.0	8618.0	8785.6	9050.8	8770.0	8403.5	8095.4	8040.8	8341.1	9729.3	8282.6
42.5°	8984.5	9113.2	9444.7	9838.5	9744.9	9378.4	8968.9	8906.5	9046.9	10528.7	9027.4
45°	9553.8	9663.0	10185.6	10790.0	10918.7	10595.0	10115.4	10064.7	10056.9	11698.6	10053.0
47.5°	10419.5	10536.5	11059.1	11667.4	12065.1	12115.8	11577.7	11523.1	11335.9	13277.9	11554.3
50°	11503.6	11694.7	12135.3	12845.0	13422.2	13964.2	13812.1	13652.2	13285.7	15114.6	13457.3
52.5°	12295.2	12529.2	13125.8	14034.4	15052.2	15914.0	16459.9	16459.9	15617.6	17130.6	15746.3
55°	12505.8	12646.2	13398.8	14712.9	16456.0	18635.8	19778.4	19692.6	18394.1	19252.0	18409.7
57.5°	11667.4	11850.7	12763.2	14139.7	17193.0	21182.2	23073.5	23093.0	21427.9	21716.5	21038.0
60°	9358.9	9417.4	10493.6	12334.2	16483.3	23233.4	27573.6	27647.7	24879.0	23911.9	22375.5
62.5°	6469.3	6656.5	7467.6	9082.0	13656.1	23003.3	31913.7	32280.3	27643.8	25070.1	22586.1
65°	4258.3	4371.4	4804.2	5786.9	9507.0	19938.3	33263.0	34393.8	29757.3	25136.4	21704.8
67.5°	3088.4	3107.9	3236.6	3743.5	5712.8	14338.6	30958.4	32553.3	30548.9	24582.6	19638.0
70°	2495.7	2511.3	2558.1	2881.8	3689.0	8972.8	25249.4	27749.0	28174.1	21958.2	15816.5
72.5°	2027.8	2047.3	2105.7	2409.9	3041.6	4991.4	18464.3	21509.8	22917.5	16245.4	10513.1
75°	1594.9	1610.5	1750.9	2051.2	2858.4	3427.7	12248.4	15231.6	15422.6	9495.3	4921.2
77.5°	1091.9	1119.2	1290.7	1739.2	2690.7	2998.7	7635.3	9756.6	8754.4	3716.2	1692.4
80°	694.1	733.1	834.5	1318.0	2378.7	2862.3	4749.6	5825.9	3833.2	1271.2	815.0
82.5°	409.5	448.4	549.8	854.0	1867.9	2655.6	3345.8	3646.1	1797.7	651.2	491.3
85°	226.2	253.5	331.5	514.7	1095.8	2359.2	2679.0	2616.6	1029.5	347.1	308.1
87.5°	74.1	85.8	120.9	206.7	452.3	1111.4	1606.6	1509.1	534.2	159.9	120.9
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°	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4	9530.4
2.5°	9522.6	9510.9	9335.5	9202.9	8976.7	8789.5	8715.4	8614.1	8610.2	8536.1	8516.6
5°	9292.6	9171.7	8902.6	8645.3	8243.6	7974.5	7728.9	7557.3	7487.1	7335.0	7299.9
7.5°	8996.2	8836.3	8423.0	7939.4	7467.6	7046.4	6664.3	6282.1	6067.7	5993.6	5911.7
10°	8688.1	8407.4	7795.2	7253.1	6594.1	5946.8	5346.3	4808.1	4515.7	4309.0	4219.3
12.5°	8442.5	8068.1	7288.2	6477.1	5607.5	4741.8	4043.8	3478.4	3146.9	2990.9	2920.7
15°	8165.6	7670.4	6734.5	5708.9	4624.8	3642.2	2959.7	2515.2	2382.6	2308.5	2296.8
17.5°	7873.1	7299.9	6134.0	4952.4	3665.6	2741.4	2300.7	2121.3	2062.9	2031.7	2016.1
20°	7600.2	6968.5	5517.8	4110.1	2870.1	2199.3	1992.7	1899.1	1895.2	1910.8	1906.9
22.5°	7214.1	6535.6	4909.5	3330.2	2292.9	1914.7	1782.1	1758.7	1782.1	1801.6	1809.4
25°	6995.8	6180.8	4231.0	2643.9	1895.2	1700.2	1657.3	1649.5	1684.6	1708.0	1704.1
27.5°	6769.6	5814.2	3599.3	2117.4	1661.2	1548.1	1540.3	1548.1	1583.2	1618.3	1614.4
30°	6594.1	5521.7	3006.5	1770.4	1481.8	1438.9	1431.1	1438.9	1458.4	1462.3	1462.3
32.5°	6449.8	5174.7	2503.5	1536.4	1372.6	1337.5	1345.3	1341.4	1345.3	1349.2	1353.1
35°	6364.0	4968.0	2090.1	1392.1	1282.9	1255.6	1251.7	1240.0	1243.9	1247.8	1243.9
37.5°	6547.3	4866.6	1762.6	1290.7	1220.6	1197.2	1189.4	1181.6	1169.9	1169.9	1169.9
40°	6824.2	4812.0	1563.7	1224.5	1173.8	1146.5	1123.1	1115.3	1115.3	1119.2	1123.1
42.5°	7374.0	4901.7	1427.2	1173.8	1115.3	1084.1	1060.7	1064.6	1076.3	1088.0	1080.2
45°	8169.5	5174.7	1364.8	1134.8	1080.2	1037.3	1021.7	1017.8	1029.5	1049.0	1064.6
47.5°	9210.7	5599.7	1341.4	1099.7	1056.8	998.3	978.8	990.5	1006.1	1033.4	1021.7
50°	10914.8	6555.1	1360.9	1068.5	1021.7	978.8	955.4	943.7	955.4	974.9	982.7
52.5°	13141.4	8290.4	1435.0	1052.9	998.3	963.2	924.2	904.7	916.4	932.0	932.0
55°	15804.8	10661.3	1641.7	1033.4	959.3	939.8	896.9	857.9	865.7	865.7	861.8
57.5°	18152.3	12451.2	1887.4	1006.1	935.9	908.6	854.0	807.2	799.4	803.3	807.2
60°	19205.2	12926.9	2004.4	998.3	935.9	869.6	795.5	748.7	737.0	729.2	729.2
62.5°	19021.9	12104.1	1766.5	963.2	959.3	838.4	740.9	690.2	674.6	659.0	662.9
65°	17914.4	10930.4	1392.1	916.4	963.2	818.9	686.3	635.6	608.3	588.8	584.9
67.5°	15890.6	9331.6	1103.6	881.3	924.2	783.8	639.5	581.0	557.6	538.1	530.3
70°	12431.7	7315.5	959.3	834.5	830.6	698.0	584.9	534.2	499.1	475.7	475.7
72.5°	8060.3	4624.8	822.8	740.9	717.5	584.9	506.9	475.7	448.4	428.9	428.9
75°	3650.0	2148.6	662.9	620.0	584.9	467.9	428.9	413.3	390.0	370.5	370.5
77.5°	1310.2	916.4	495.2	487.4	436.7	362.7	347.1	335.4	319.8	300.3	300.3
80°	733.1	581.0	370.5	354.9	304.2	269.1	249.6	249.6	241.8	230.1	226.2
82.5°	464.0	378.3	273.0	237.9	198.9	179.4	171.6	167.7	163.8	148.2	144.3
85°	292.5	257.4	179.4	140.4	117.0	89.7	85.8	81.9	74.1	66.3	66.3
87.5°	132.6	148.2	70.2	42.9	31.2	19.5	11.7	3.9	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)