

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: P480131

Luminaire Tested: **IFLD-L-SA7A-740-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480131
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-740-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

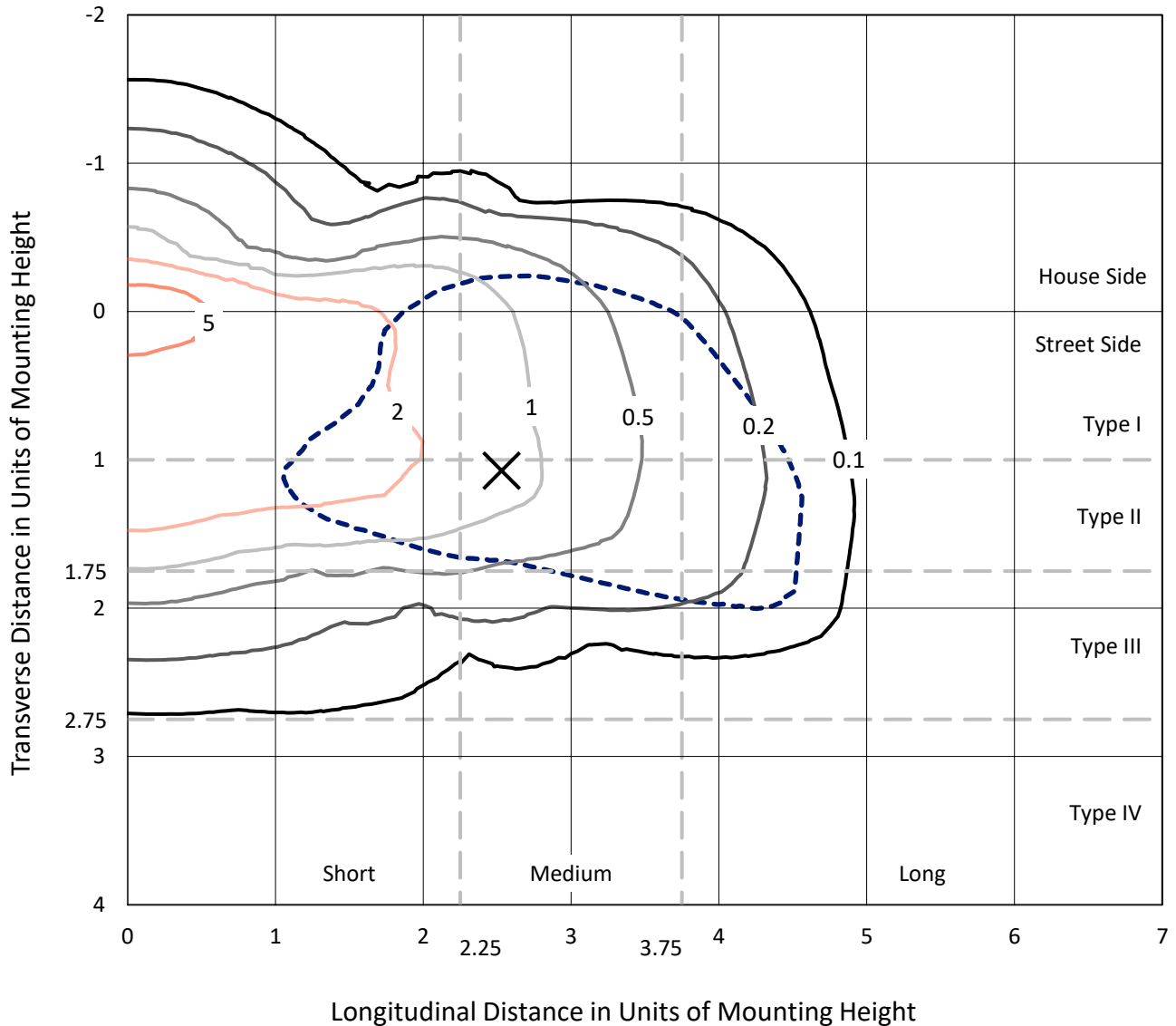
Lumens per Lamp: N/A
Luminaire Lumens: 31208.4 lumens
Efficiency: N/A
Efficacy: 143.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 217.6
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

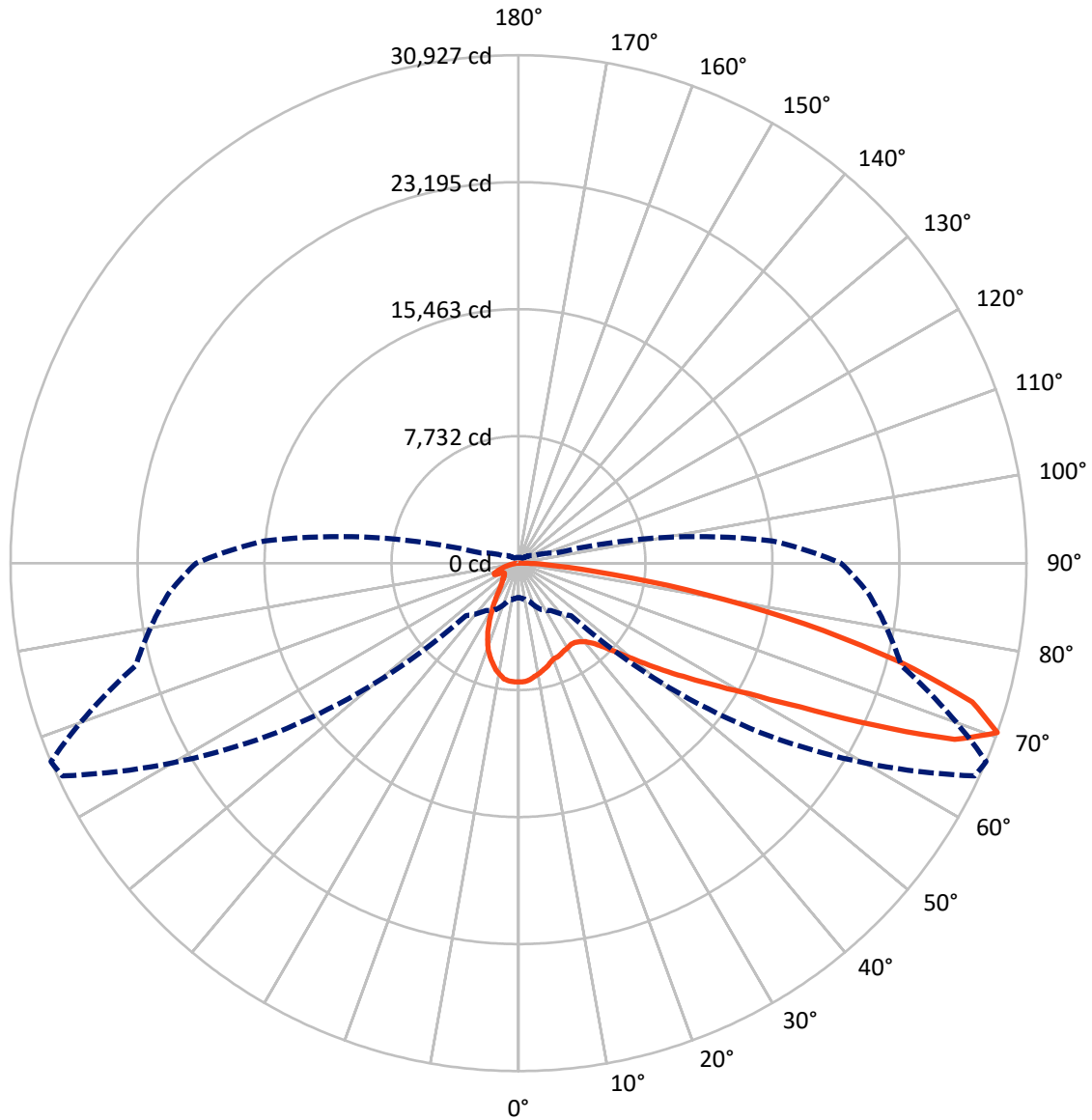
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6078.1	0.0	6078.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	25130.3	0.0	25130.3
	% Fixture	80.5	0.0	80.5
Total	Lumens	31208.4	0.0	31208.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	630.4	2.0
10°-20°	1509.7	4.8
20°-30°	2038.7	6.5
30°-40°	2728.0	8.7
40°-50°	4011.5	12.9
50°-60°	6252.9	20.0
60°-70°	7702.6	24.7
70°-80°	5442.6	17.4
80°-90°	892.1	2.9
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°	31208.4	100.0
0°-180°	31208.4	100.0

Coefficient of Utilization

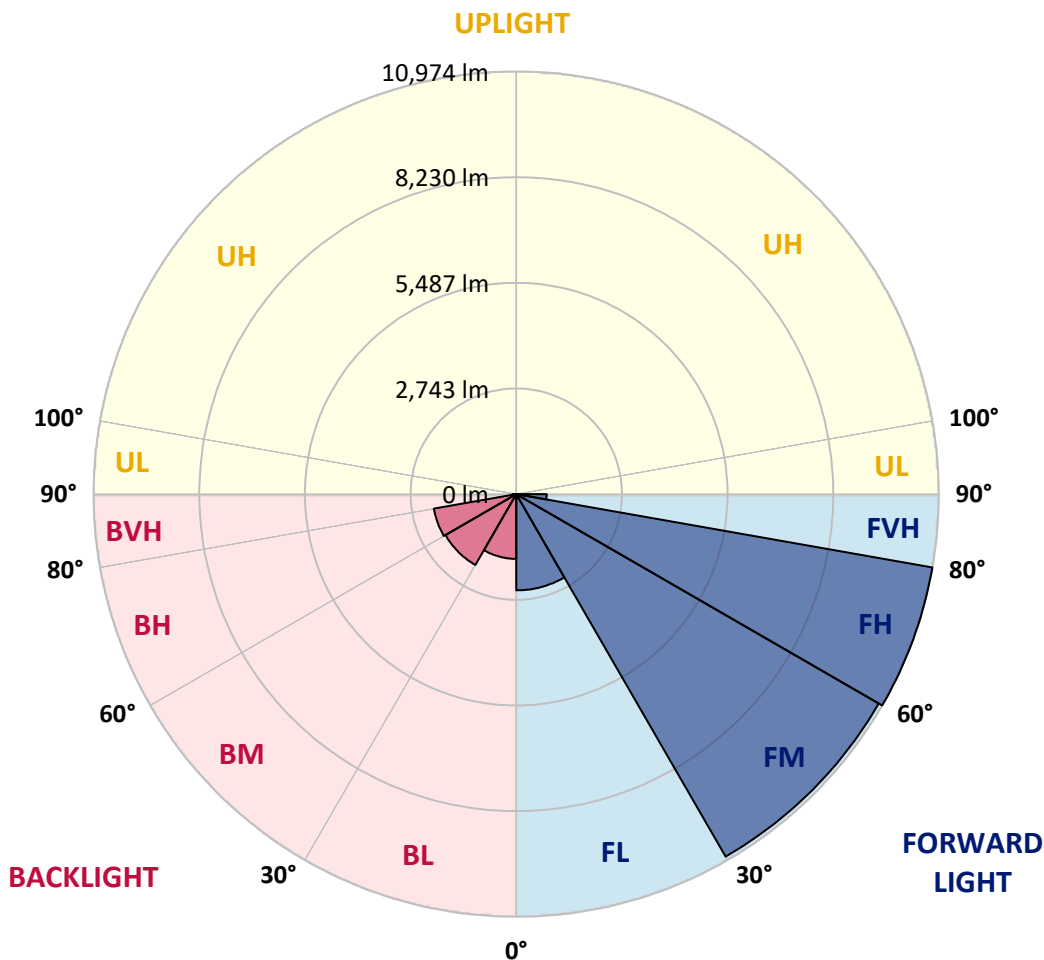


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.0	8.0			
FM (30°-60°)	10869.2	34.8			
FH (60°-80°)	10973.9	35.2			G4/12000
FVH (80°-90°)	789.2	2.5			G5
BL (0°-30°)	1680.8	5.4	B3/2500		
BM (30°-60°)	2123.2	6.8	B2/2500		
BH (60°-80°)	2171.2	7.0	B3/2500		G3/2500
BVH (80°-90°)	102.9	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7
2.5°	6727.1	6803.1	6830.8	6872.2	6979.3	7058.8	7107.2	7162.5	7228.1	7283.4	7317.9
5°	6257.2	6298.7	6364.3	6409.2	6544.0	6758.2	6903.3	7138.3	7131.4	7217.7	7349.0
7.5°	5801.1	5842.6	5873.7	5963.5	6157.0	6350.5	6616.6	6996.6	6969.0	7169.4	7373.2
10°	5517.8	5486.7	5497.1	5649.1	5801.1	6018.8	6354.0	6740.9	6841.1	7152.1	7442.3
12.5°	5251.8	5217.2	5300.2	5396.9	5583.5	5780.4	6181.2	6530.2	6682.2	7089.9	7473.4
15°	5085.9	5061.7	5165.4	5206.9	5428.0	5662.9	5946.3	6371.2	6537.1	7013.9	7425.0
17.5°	4992.6	5013.4	5051.4	5141.2	5282.9	5483.3	5794.2	6264.1	6336.7	6920.6	7414.7
20°	5009.9	5034.1	5037.6	5075.6	5172.3	5327.8	5645.7	6150.1	6198.5	6903.3	7442.3
22.5°	5148.1	5113.6	5127.4	5103.2	5130.9	5251.8	5531.6	5998.1	6184.7	6758.2	7383.6
25°	5355.4	5307.1	5300.2	5217.2	5165.4	5200.0	5510.9	5960.1	6081.0	6713.3	7380.1
27.5°	5721.7	5649.1	5649.1	5524.7	5314.0	5258.7	5452.2	5897.9	6005.0	6671.8	7300.7
30°	6074.1	6074.1	6077.6	5901.3	5666.4	5393.4	5476.4	5873.7	5942.8	6547.4	7193.6
32.5°	6502.5	6492.2	6474.9	6388.5	6025.7	5618.0	5593.8	5842.6	5877.2	6506.0	7162.5
35°	6920.6	6893.0	7027.7	6951.7	6582.0	6056.8	5714.8	5856.4	5932.4	6443.8	7065.7
37.5°	7235.0	7252.3	7532.2	7580.5	7262.7	6554.4	6056.8	5994.6	6067.2	6533.6	7065.7
40°	7642.7	7711.8	7974.4	8136.8	7943.3	7210.8	6599.3	6226.1	6278.0	6734.0	7217.7
42.5°	8178.3	8237.0	8572.1	8782.9	8727.6	8047.0	7134.8	6709.8	6668.4	7069.2	7445.8
45°	8886.6	8896.9	9235.5	9525.8	9639.8	8921.1	7984.8	7321.4	7286.8	7646.2	7863.8
47.5°	9729.6	9719.2	9930.0	10241.0	10548.5	9964.6	8962.6	8250.8	8126.4	8472.0	8558.3
50°	10545.0	10500.1	10548.5	10945.8	11536.6	11270.6	10151.1	9387.6	9263.2	9453.2	9601.8
52.5°	10994.2	11049.5	10918.2	11443.4	12587.0	12815.0	11726.7	10745.4	10638.3	10731.6	10990.7
55°	10679.8	10793.8	10707.4	11204.9	13046.5	14698.1	13765.2	12317.5	12179.3	12144.7	12569.7
57.5°	9342.6	9549.9	9567.2	10355.0	12887.6	16156.1	16632.9	14172.9	13965.6	13613.2	14052.0
60°	7172.8	7380.1	7539.1	8472.0	11526.3	17026.8	19956.8	16812.6	16128.5	15216.3	15478.9
62.5°	5027.2	5168.9	5327.8	5901.3	8886.6	16515.5	22831.4	20530.3	19269.2	16905.9	17234.1
65°	3662.4	3773.0	3935.4	4274.0	5459.1	13665.0	24165.1	24946.0	23750.5	19055.0	19013.5
67.5°	2757.2	2826.3	3040.5	3583.0	3783.4	8440.9	22783.1	29610.4	28642.9	21442.5	20443.9
70°	2086.9	2145.6	2346.0	3088.9	3534.6	4526.2	17973.5	30650.4	30926.8	24120.2	21404.5
72.5°	1437.3	1503.0	1727.6	2574.1	3365.3	3589.9	11281.0	27844.8	28891.7	25222.4	20374.8
75°	881.1	926.0	1057.3	1952.1	3341.1	3510.4	6208.8	22817.6	23926.7	23304.8	17825.0
77.5°	621.9	618.5	642.7	1143.6	2895.4	3531.1	3828.3	16719.3	17797.3	17175.4	12096.4
80°	452.6	456.1	480.3	684.1	1966.0	3589.9	3016.3	11198.0	11519.4	8955.7	4771.5
82.5°	273.0	286.8	345.5	463.0	1181.7	3240.9	2788.3	6222.7	5821.9	2874.7	1312.9
85°	145.1	145.1	203.9	293.7	628.8	2418.6	2684.6	2961.0	2480.8	891.4	487.2
87.5°	34.6	34.6	58.7	117.5	252.2	1157.5	1831.2	1178.2	943.2	300.6	200.4
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°	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7	7224.7
2.5°	7304.1	7262.7	7314.5	7210.8	7127.9	7131.4	7003.5	6996.6	6979.3	6889.5	6920.6
5°	7387.0	7352.5	7293.8	7179.7	6996.6	6813.5	6702.9	6561.3	6502.5	6471.4	6485.3
7.5°	7466.5	7404.3	7235.0	7076.1	6792.8	6447.3	6246.9	6056.8	5815.0	5787.3	5739.0
10°	7487.2	7355.9	7138.3	6799.7	6423.1	6039.5	5583.5	5231.0	5044.5	4899.4	4844.1
12.5°	7456.1	7400.9	6982.8	6547.4	5977.4	5376.2	4844.1	4346.5	4001.0	3821.4	3773.0
15°	7452.7	7355.9	6810.0	6163.9	5434.9	4650.6	3893.9	3296.2	2933.4	2784.8	2784.8
17.5°	7456.1	7224.7	6606.2	5777.0	4795.7	3735.0	2902.3	2411.7	2211.3	2190.5	2207.8
20°	7387.0	7127.9	6392.0	5320.9	3994.1	2805.6	2107.6	1907.2	1907.2	1934.9	1945.2
22.5°	7324.9	6982.8	6053.4	4757.7	3178.7	2031.6	1713.7	1655.0	1720.6	1769.0	1789.8
25°	7238.5	6861.9	5707.9	4173.8	2418.6	1637.7	1489.2	1503.0	1565.2	1651.5	1644.6
27.5°	7114.1	6651.1	5296.7	3496.6	1800.1	1413.1	1375.1	1382.0	1447.7	1485.7	1478.8
30°	6972.4	6436.9	4916.6	2822.8	1427.0	1295.7	1292.2	1309.5	1319.9	1340.6	1337.1
32.5°	6792.8	6153.6	4512.4	2194.0	1285.3	1230.0	1216.2	1205.8	1216.2	1212.7	1202.4
35°	6664.9	6001.5	4101.2	1672.3	1205.8	1171.3	1160.9	1143.6	1129.8	1109.1	1105.6
37.5°	6630.4	5849.5	3669.3	1364.8	1143.6	1126.4	1091.8	1060.7	1043.4	1033.1	1026.2
40°	6609.6	5749.3	3247.8	1198.9	1091.8	1074.5	1033.1	991.6	974.3	964.0	967.4
42.5°	6682.2	5694.0	2819.4	1116.0	1046.9	1015.8	970.9	922.5	919.1	912.2	922.5
45°	6937.9	5763.1	2422.0	1057.3	1002.0	950.2	891.4	867.2	863.8	856.9	863.8
47.5°	7518.3	5935.9	2083.4	1019.3	953.6	908.7	846.5	812.0	808.5	805.0	805.0
50°	8319.9	6468.0	1800.1	974.3	922.5	860.3	801.6	763.6	756.7	742.9	742.9
52.5°	9577.6	7362.9	1630.8	950.2	867.2	815.4	753.2	711.8	694.5	680.7	680.7
55°	10994.2	8472.0	1599.7	908.7	808.5	760.1	704.8	663.4	646.1	628.8	621.9
57.5°	12607.7	9940.4	1820.8	881.1	767.0	704.8	642.7	604.6	590.8	573.5	566.6
60°	14110.7	11405.3	2508.4	839.6	729.0	653.0	590.8	552.8	535.5	518.3	518.3
62.5°	15848.6	13219.3	3672.8	839.6	694.5	597.7	535.5	507.9	497.5	480.3	476.8
65°	17904.4	15095.4	4522.8	891.4	684.1	549.4	483.7	456.1	445.7	435.3	431.9
67.5°	19469.6	16173.4	3890.5	1029.6	729.0	507.9	431.9	414.6	407.7	397.3	390.4
70°	19635.4	15516.9	2346.0	1112.5	773.9	466.4	387.0	369.7	369.7	359.3	352.4
72.5°	18146.3	13768.6	1579.0	991.6	701.4	418.1	342.1	328.2	321.3	314.4	311.0
75°	15185.2	11678.3	1247.3	791.2	539.0	345.5	297.1	283.3	273.0	269.5	262.6
77.5°	10199.5	7590.9	922.5	618.5	397.3	279.9	248.8	234.9	224.6	221.1	210.8
80°	3918.1	2891.9	594.3	449.2	279.9	221.1	196.9	183.1	176.2	165.8	158.9
82.5°	1154.0	936.3	331.7	276.4	179.7	152.0	141.7	131.3	120.9	110.6	107.1
85°	476.8	428.4	203.9	145.1	110.6	89.8	82.9	72.6	62.2	55.3	48.4
87.5°	221.1	183.1	93.3	55.3	38.0	20.7	10.4	3.5	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)