

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: P480631

Luminaire Tested: **IFLD-S-SA6D-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480631
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

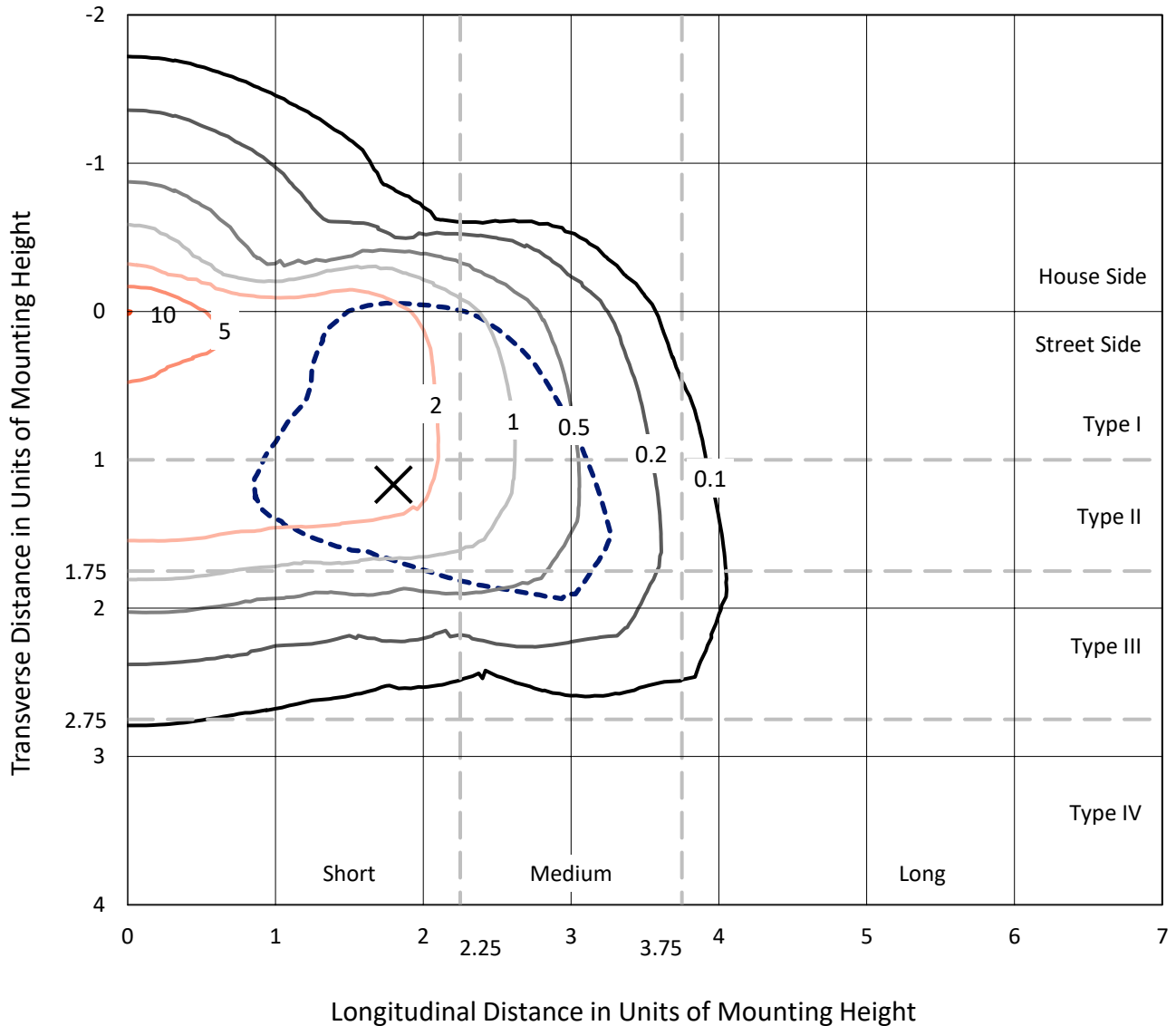
Lumens per Lamp: N/A
Luminaire Lumens: 33164 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

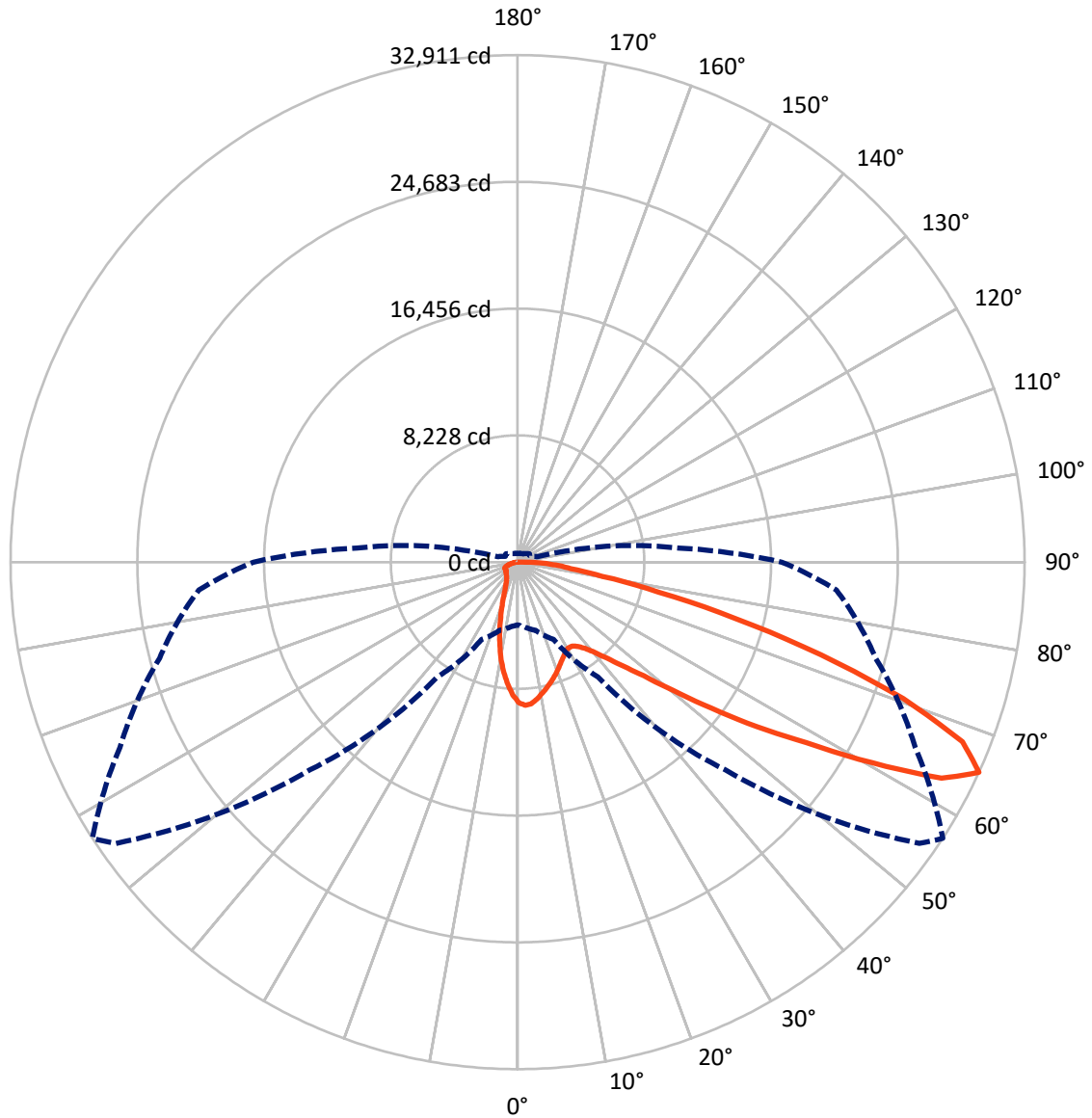
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	5086.0	0.0	5086.0
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	28078.0	0.0	28078.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	33164.0	0.0	33164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.7	2.3
10°-20°	1643.6	5.0
20°-30°	2125.0	6.4
30°-40°	2859.6	8.6
40°-50°	4559.7	13.7
50°-60°	8053.6	24.3
60°-70°	8860.0	26.7
70°-80°	3706.3	11.2
80°-90°	592.3	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°	33164.0	100.0
0°-180°	33164.0	100.0

Coefficient of Utilization



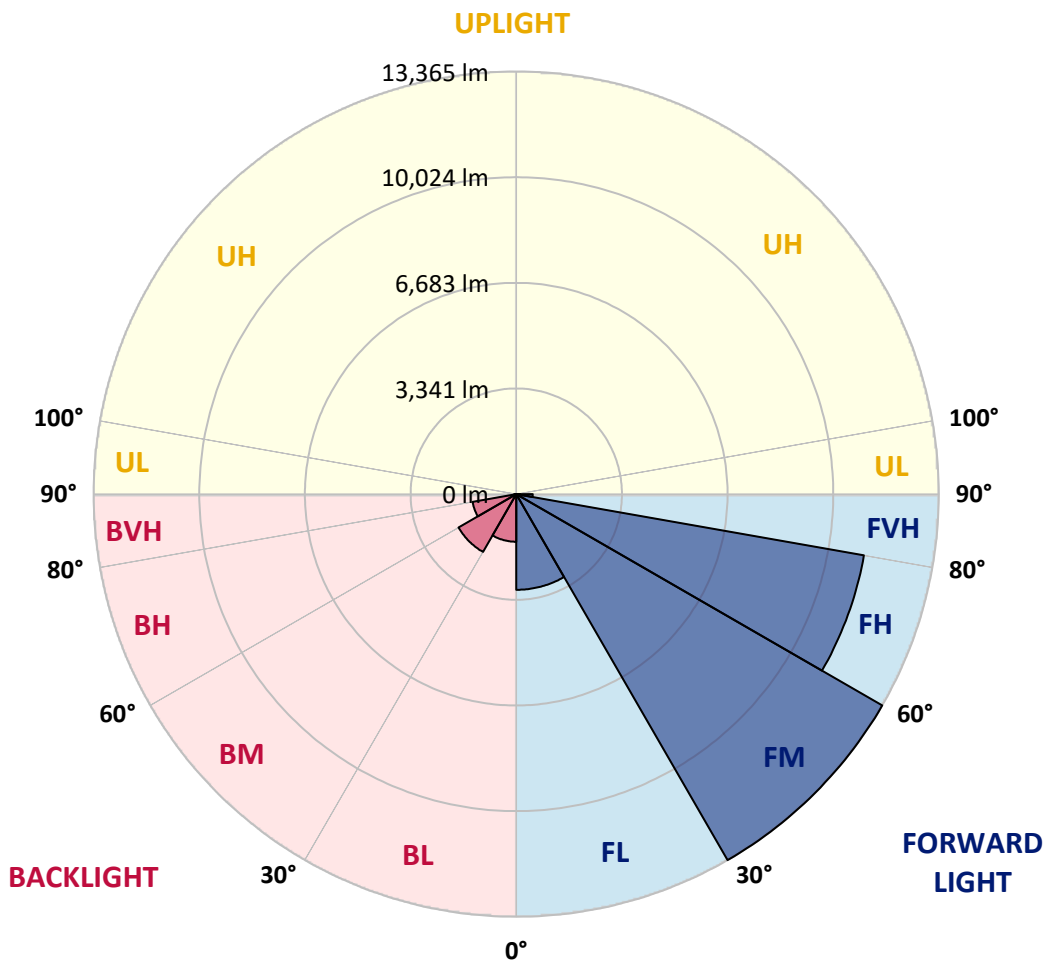
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3026.1	9.1			
FM (30°-60°)	13365.0	40.3			
FH (60°-80°)	11164.0	33.7			G4/12000
FVH (80°-90°)	522.9	1.6			G4/750
BL (0°-30°)	1506.2	4.5	B3/2500		
BM (30°-60°)	2107.9	6.4	B2/2500		
BH (60°-80°)	1402.4	4.2	B3/2500		G3/2500
BVH (80°-90°)	69.5	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°	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6
2.5°	9365.9	9380.8	9380.8	9410.7	9309.9	9358.4	9351.0	9306.2	9321.1	9242.8	9164.4
5°	9101.0	9089.8	9149.5	9156.9	9235.3	9257.7	9276.3	9246.5	9254.0	9082.3	9007.7
7.5°	8421.8	8418.1	8518.9	8604.7	8768.9	8921.9	9022.6	8992.8	9033.8	8925.6	8750.2
10°	7615.9	7701.7	7806.2	7892.0	8194.2	8388.3	8649.5	8675.6	8832.3	8806.2	8489.0
12.5°	7011.4	7048.7	7127.0	7373.3	7649.4	7970.3	8343.5	8377.1	8530.1	8604.7	8328.6
15°	6515.1	6548.7	6649.4	6832.3	7142.0	7522.6	7996.5	8082.3	8388.3	8414.4	8119.6
17.5°	6153.1	6179.3	6246.4	6429.3	6683.0	7171.8	7619.6	7772.6	8175.6	8302.4	7903.2
20°	6011.3	5955.4	5992.7	6108.4	6362.1	6739.0	7317.3	7451.7	7966.6	8216.6	7697.9
22.5°	5947.9	5899.4	5921.8	5914.3	6115.8	6384.5	6992.7	7134.5	7768.8	8115.9	7515.1
25°	5996.4	5996.4	5974.0	5955.4	5977.8	6153.1	6642.0	6862.1	7503.9	8030.0	7328.5
27.5°	6257.6	6156.9	6168.1	6089.7	6067.3	6067.3	6485.2	6615.8	7418.1	7981.5	7175.5
30°	6425.5	6474.0	6477.8	6362.1	6246.4	6037.5	6339.7	6466.6	7347.2	8041.2	7086.0
32.5°	6854.6	6832.3	6768.8	6746.4	6574.8	6339.7	6410.6	6496.4	7306.1	8175.6	7112.1
35°	7283.8	7272.6	7276.3	7265.1	7086.0	6739.0	6600.9	6716.6	7380.8	8410.7	7201.7
37.5°	7727.8	7757.7	7884.5	7884.5	7694.2	7317.3	7134.5	7100.9	7653.2	8795.0	7414.4
40°	8171.8	8246.5	8406.9	8660.7	8392.0	8041.2	7746.5	7694.2	7981.5	9309.9	7925.6
42.5°	8597.2	8720.4	9037.5	9414.4	9324.9	8974.1	8582.3	8522.6	8656.9	10074.9	8638.3
45°	9142.0	9246.5	9746.5	10324.9	10448.0	10138.3	9679.3	9630.8	9623.4	11194.3	9619.6
47.5°	9970.4	10082.3	10582.3	11164.4	11545.1	11593.6	11078.6	11026.4	10847.3	12705.5	11056.2
50°	11007.7	11190.6	11612.2	12291.3	12843.6	13362.3	13216.7	13063.7	12713.0	14463.0	12877.2
52.5°	11765.2	11989.1	12560.0	13429.4	14403.3	15228.0	15750.4	15750.4	14944.4	16392.2	15067.5
55°	11966.7	12101.0	12821.2	14078.7	15746.7	17832.5	18925.8	18843.7	17601.2	18422.1	17616.1
57.5°	11164.4	11339.8	12213.0	13530.2	16451.9	20269.1	22078.9	22097.6	20504.2	20780.4	20131.1
60°	8955.4	9011.4	10041.3	11802.5	15772.8	22231.9	26385.0	26455.9	23806.5	22881.2	21411.0
62.5°	6190.4	6369.6	7145.7	8690.5	13067.5	22011.7	30538.1	30888.8	26452.1	23989.4	21612.5
65°	4074.7	4182.9	4597.1	5537.4	9097.2	19078.8	31829.1	32911.2	28474.6	24052.8	20769.2
67.5°	2955.3	2974.0	3097.1	3582.2	5466.6	13720.5	29623.9	31150.0	29232.1	23523.0	18791.5
70°	2388.1	2403.0	2447.8	2757.5	3529.9	8586.0	24161.0	26552.9	26959.6	21011.7	15134.7
72.5°	1940.3	1959.0	2015.0	2306.0	2910.5	4776.2	17668.3	20582.6	21929.6	15545.2	10059.9
75°	1526.2	1541.1	1675.4	1962.7	2735.1	3279.9	11720.4	14575.0	14757.8	9086.0	4709.1
77.5°	1044.8	1070.9	1235.1	1664.2	2574.7	2869.5	7306.1	9336.0	8377.1	3556.1	1619.4
80°	664.2	701.5	798.5	1261.2	2276.2	2738.9	4544.9	5574.8	3668.0	1216.4	779.9
82.5°	391.8	429.1	526.1	817.2	1787.4	2541.1	3201.6	3488.9	1720.2	623.1	470.2
85°	216.4	242.5	317.2	492.5	1048.5	2257.5	2563.5	2503.8	985.1	332.1	294.8
87.5°	70.9	82.1	115.7	197.8	432.8	1063.5	1537.4	1444.1	511.2	153.0	115.7
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°	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6	9119.6
2.5°	9112.2	9101.0	8933.1	8806.2	8589.8	8410.7	8339.8	8242.7	8239.0	8168.1	8149.5
5°	8892.0	8776.3	8518.9	8272.6	7888.3	7630.8	7395.7	7231.5	7164.4	7018.8	6985.2
7.5°	8608.4	8455.4	8059.9	7597.2	7145.7	6742.7	6377.0	6011.3	5806.1	5735.2	5656.9
10°	8313.6	8045.0	7459.1	6940.5	6309.9	5690.4	5115.8	4600.9	4321.0	4123.2	4037.4
12.5°	8078.6	7720.3	6974.0	6197.9	5365.8	4537.4	3869.5	3328.4	3011.3	2862.0	2794.8
15°	7813.6	7339.7	6444.2	5462.8	4425.5	3485.2	2832.2	2406.8	2279.9	2209.0	2197.8
17.5°	7533.8	6985.2	5869.5	4738.9	3507.5	2623.2	2201.5	2029.9	1973.9	1944.1	1929.2
20°	7272.6	6668.1	5280.0	3932.9	2746.3	2104.5	1906.8	1817.2	1813.5	1828.4	1824.7
22.5°	6903.2	6253.9	4697.9	3186.6	2194.1	1832.1	1705.3	1682.9	1705.3	1723.9	1731.4
25°	6694.2	5914.3	4048.6	2529.9	1813.5	1626.9	1585.9	1578.4	1612.0	1634.4	1630.6
27.5°	6477.8	5563.6	3444.1	2026.2	1589.6	1481.4	1473.9	1481.4	1515.0	1548.5	1544.8
30°	6309.9	5283.7	2876.9	1694.1	1417.9	1376.9	1369.4	1376.9	1395.6	1399.3	1399.3
32.5°	6171.8	4951.6	2395.6	1470.2	1313.5	1279.9	1287.3	1283.6	1287.3	1291.1	1294.8
35°	6089.7	4753.8	2000.0	1332.1	1227.6	1201.5	1197.8	1186.6	1190.3	1194.1	1190.3
37.5°	6265.1	4656.8	1686.6	1235.1	1167.9	1145.6	1138.1	1130.6	1119.4	1119.4	1119.4
40°	6530.0	4604.6	1496.3	1171.7	1123.2	1097.0	1074.7	1067.2	1067.2	1070.9	1074.7
42.5°	7056.1	4690.4	1365.7	1123.2	1067.2	1037.3	1014.9	1018.7	1029.9	1041.1	1033.6
45°	7817.4	4951.6	1306.0	1085.8	1033.6	992.6	977.6	973.9	985.1	1003.8	1018.7
47.5°	8813.6	5358.3	1283.6	1052.3	1011.2	955.2	936.6	947.8	962.7	988.8	977.6
50°	10444.3	6272.5	1302.3	1022.4	977.6	936.6	914.2	903.0	914.2	932.9	940.3
52.5°	12574.9	7933.0	1373.2	1007.5	955.2	921.7	884.3	865.7	876.9	891.8	891.8
55°	15123.5	10201.7	1570.9	988.8	917.9	899.3	858.2	820.9	828.4	828.4	824.6
57.5°	17369.8	11914.5	1806.0	962.7	895.5	869.4	817.2	772.4	764.9	768.7	772.4
60°	18377.3	12369.7	1918.0	955.2	895.5	832.1	761.2	716.4	705.2	697.8	697.8
62.5°	18201.9	11582.4	1690.3	921.7	917.9	802.3	709.0	660.5	645.5	630.6	634.3
65°	17142.2	10459.2	1332.1	876.9	921.7	783.6	656.7	608.2	582.1	563.4	559.7
67.5°	15205.6	8929.3	1056.0	843.3	884.3	750.0	612.0	556.0	533.6	514.9	507.5
70°	11895.8	7000.2	917.9	798.5	794.8	667.9	559.7	511.2	477.6	455.2	455.2
72.5°	7712.9	4425.5	787.3	709.0	686.6	559.7	485.1	455.2	429.1	410.5	410.5
75°	3492.6	2056.0	634.3	593.3	559.7	447.8	410.5	395.5	373.1	354.5	354.5
77.5°	1253.8	876.9	473.9	466.4	417.9	347.0	332.1	320.9	306.0	287.3	287.3
80°	701.5	556.0	354.5	339.6	291.1	257.5	238.8	238.8	231.3	220.2	216.4
82.5°	444.0	361.9	261.2	227.6	190.3	171.6	164.2	160.5	156.7	141.8	138.1
85°	279.9	246.3	171.6	134.3	111.9	85.8	82.1	78.4	70.9	63.4	63.4
87.5°	126.9	141.8	67.2	41.0	29.9	18.7	11.2	3.7	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)