

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: P480007

Luminaire Tested: **IFLD-S-SA6D-727-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480007
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-727-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (96) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

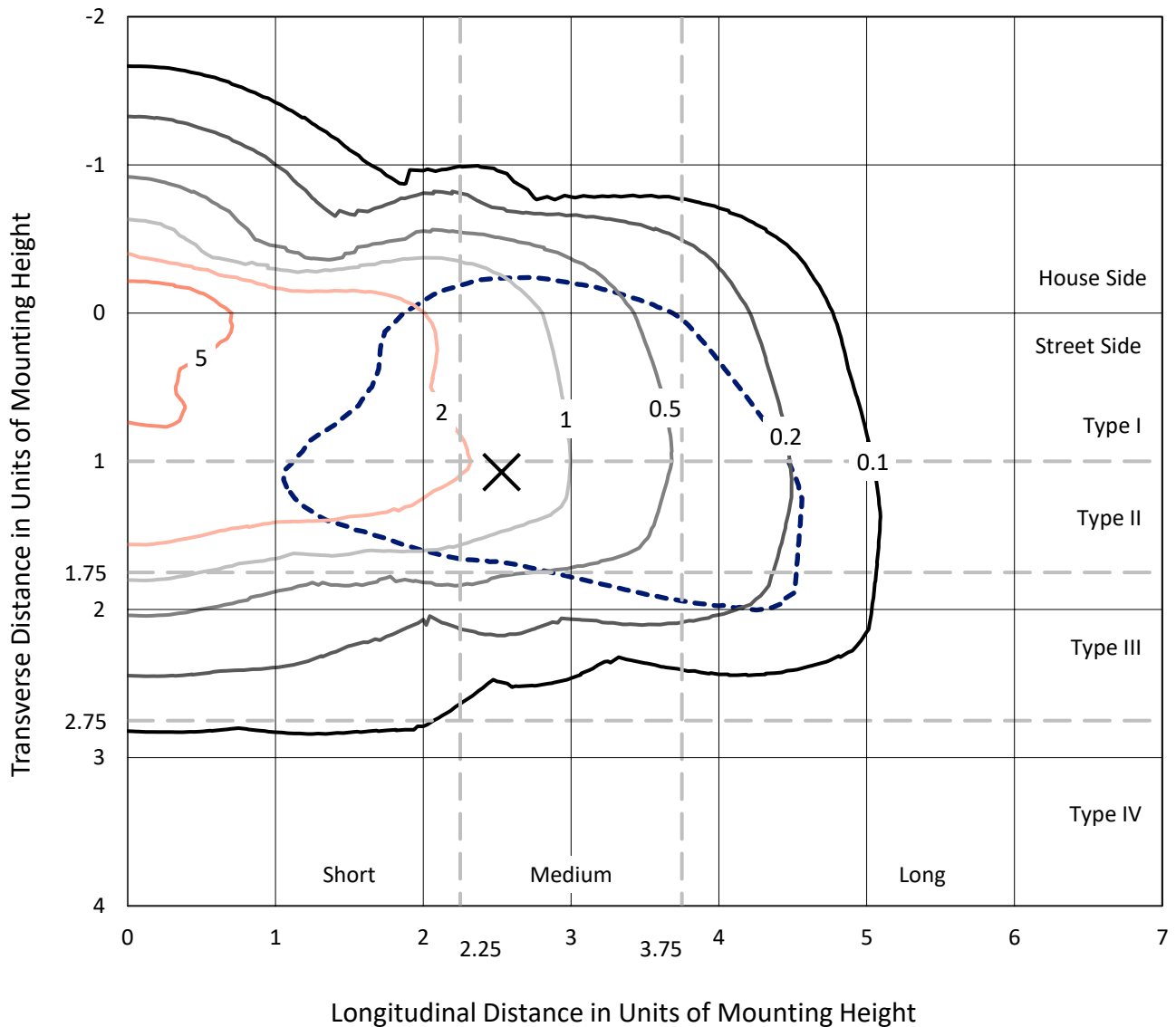
Lumens per Lamp: N/A
Luminaire Lumens: 38124.7 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

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

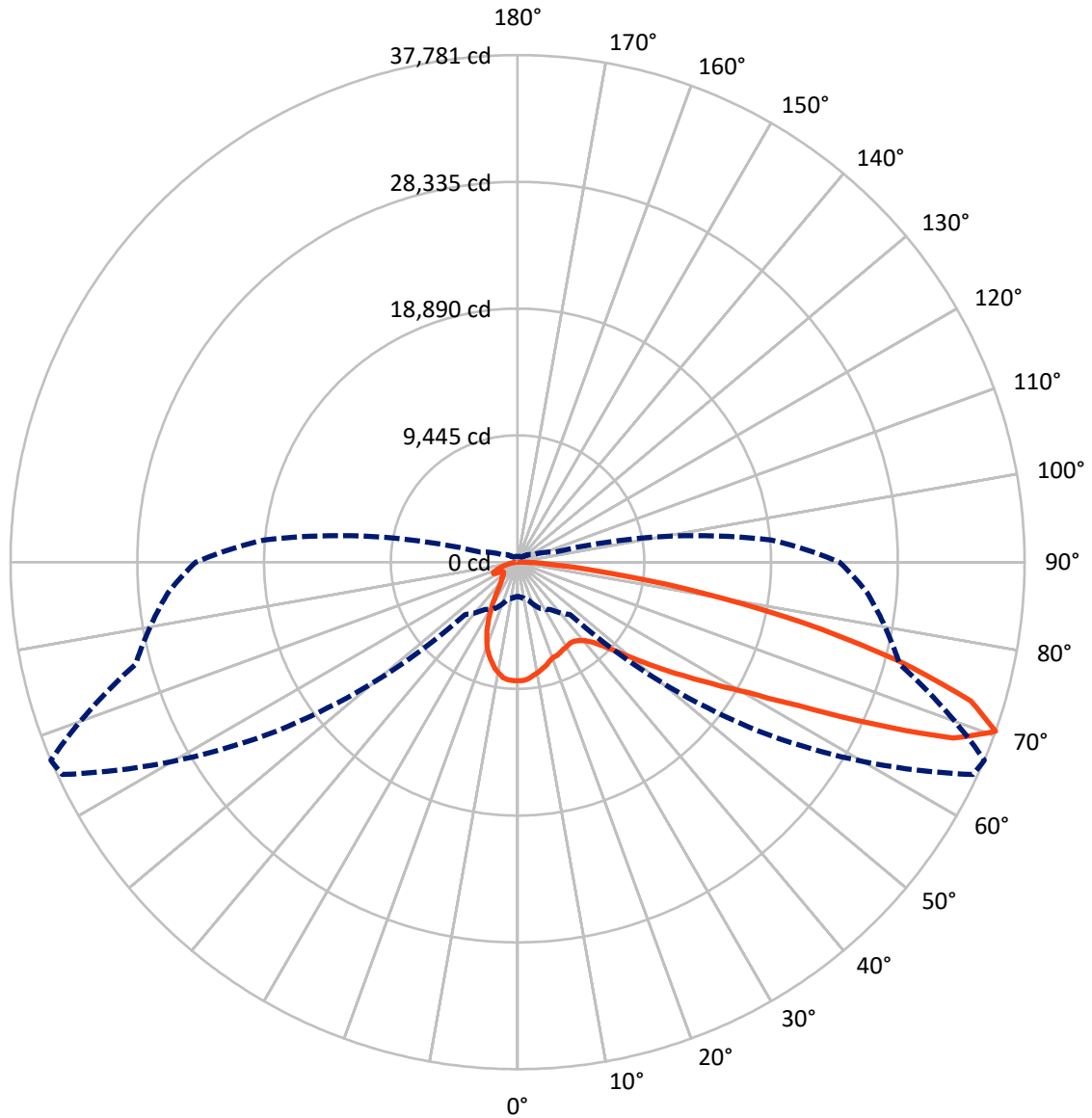
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.9 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	7425.1	0.0	7425.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	30699.5	0.0	30699.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	38124.7	0.0	38124.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.1	2.0
10°-20°	1844.3	4.8
20°-30°	2490.6	6.5
30°-40°	3332.6	8.7
40°-50°	4900.5	12.9
50°-60°	7638.7	20.0
60°-70°	9409.6	24.7
70°-80°	6648.7	17.4
80°-90°	1089.8	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°	38124.7	100.0
0°-180°	38124.7	100.0

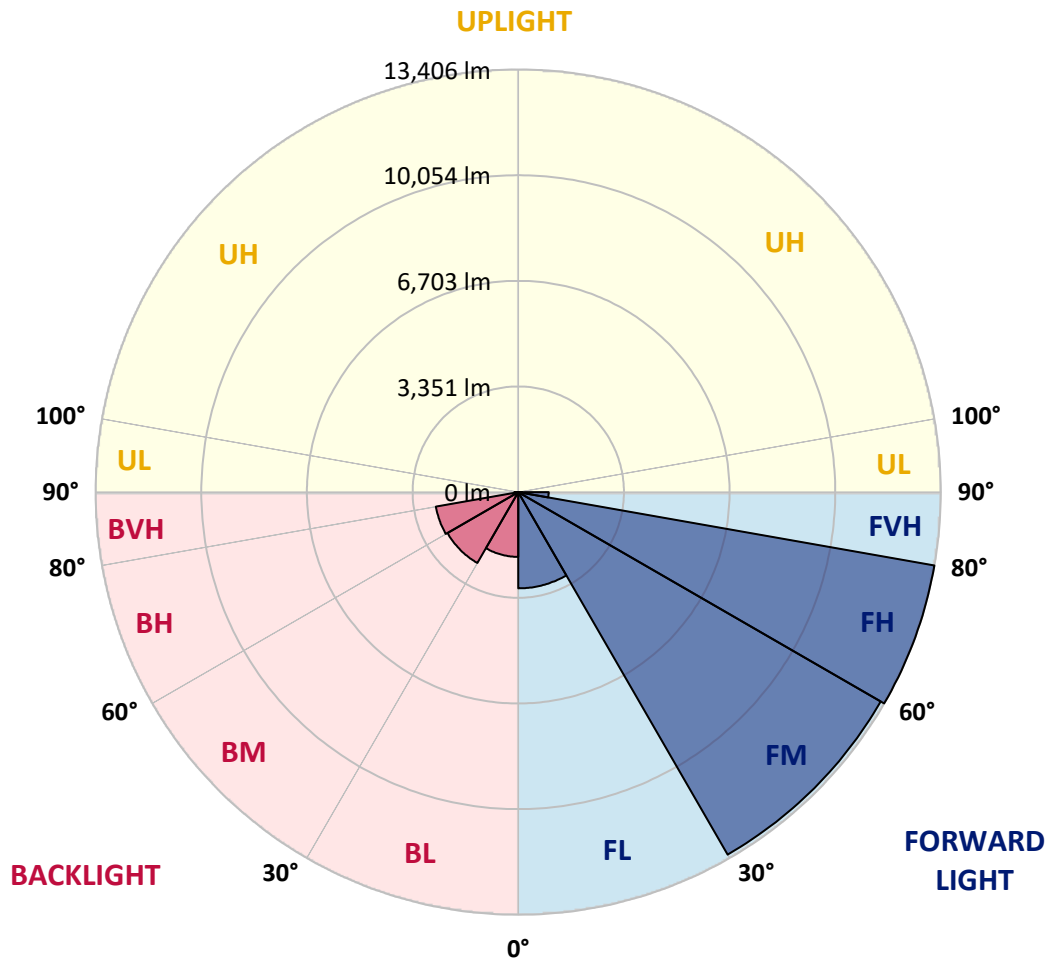


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.6	8.0			
FM (30°-60°)	13278.0	34.8			
FH (60°-80°)	13405.9	35.2			G5
FVH (80°-90°)	964.0	2.5			G5
BL (0°-30°)	2053.3	5.4	B3/2500		
BM (30°-60°)	2593.8	6.8	B3/5000		
BH (60°-80°)	2652.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	125.7	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7
2.5°	8217.9	8310.8	8344.6	8395.2	8526.1	8623.1	8682.2	8749.8	8830.0	8897.5	8939.7
5°	7643.9	7694.6	7774.8	7829.6	7994.2	8255.9	8433.2	8720.2	8711.8	8817.3	8977.7
7.5°	7086.8	7137.4	7175.4	7285.1	7521.5	7757.9	8082.9	8547.2	8513.4	8758.2	9007.2
10°	6740.7	6702.7	6715.3	6901.0	7086.8	7352.7	7762.1	8234.8	8357.2	8737.1	9091.7
12.5°	6415.7	6373.4	6474.7	6592.9	6820.9	7061.4	7551.1	7977.4	8163.1	8661.1	9129.6
15°	6213.1	6183.5	6310.1	6360.8	6630.9	6917.9	7264.0	7783.2	7985.8	8568.3	9070.5
17.5°	6099.1	6124.4	6170.8	6280.6	6453.6	6698.4	7078.3	7652.4	7741.0	8454.3	9057.9
20°	6120.2	6149.7	6154.0	6200.4	6318.6	6508.5	6896.8	7513.1	7572.2	8433.2	9091.7
22.5°	6289.0	6246.8	6263.7	6234.2	6267.9	6415.7	6757.5	7327.3	7555.3	8255.9	9019.9
25°	6542.3	6483.2	6474.7	6373.4	6310.1	6352.3	6732.2	7280.9	7428.6	8201.1	9015.7
27.5°	6989.7	6901.0	6901.0	6749.1	6491.6	6424.1	6660.5	7204.9	7335.8	8150.4	8918.6
30°	7420.2	7420.2	7424.4	7209.2	6922.1	6588.7	6690.0	7175.4	7259.8	7998.5	8787.8
32.5°	7943.6	7930.9	7909.8	7804.3	7361.1	6863.1	6833.5	7137.4	7179.6	7947.8	8749.8
35°	8454.3	8420.5	8585.2	8492.3	8040.7	7399.1	6981.2	7154.3	7247.2	7871.8	8631.6
37.5°	8838.4	8859.5	9201.4	9260.5	8872.2	8006.9	7399.1	7323.1	7411.8	7981.6	8631.6
40°	9336.5	9420.9	9741.7	9940.0	9703.7	8808.9	8061.8	7605.9	7669.2	8226.4	8817.3
42.5°	9990.7	10062.4	10471.9	10729.3	10661.8	9830.3	8716.0	8196.8	8146.2	8635.8	9095.9
45°	10856.0	10868.6	11282.3	11636.8	11776.1	10898.2	9754.3	8943.9	8901.7	9340.7	9606.6
47.5°	11885.8	11873.2	12130.6	12510.5	12886.2	12172.9	10948.8	10079.3	9927.4	10349.5	10455.0
50°	12882.0	12827.1	12886.2	13371.6	14093.3	13768.3	12400.8	11468.0	11316.0	11548.2	11729.7
52.5°	13430.7	13498.2	13337.8	13979.4	15376.5	15655.0	14325.5	13126.8	12995.9	13109.9	13426.4
55°	13046.6	13185.9	13080.3	13688.1	15937.8	17955.4	16815.8	15047.2	14878.4	14836.2	15355.4
57.5°	11413.1	11666.4	11687.5	12649.8	15743.7	19736.6	20319.0	17313.8	17060.6	16630.0	17166.1
60°	8762.4	9015.7	9209.8	10349.5	14080.7	20800.2	24379.5	20538.5	19702.8	18588.5	18909.3
62.5°	6141.3	6314.4	6508.5	7209.2	10856.0	20175.5	27891.2	25080.1	23539.5	20652.5	21053.5
65°	4474.1	4609.1	4807.5	5221.2	6668.9	16693.4	29520.4	30474.3	29013.9	23277.8	23227.2
67.5°	3368.2	3452.6	3714.3	4377.0	4621.8	10311.5	27832.1	36172.5	34990.6	26194.4	24974.6
70°	2549.4	2621.1	2865.9	3773.4	4317.9	5529.3	21956.7	37442.9	37780.6	29465.6	26148.0
72.5°	1755.9	1836.1	2110.4	3144.5	4111.1	4385.4	13781.0	34015.6	35294.5	30812.0	24890.2
75°	1076.3	1131.2	1291.6	2384.8	4081.5	4288.4	7584.8	27874.3	29229.2	28469.5	21775.2
77.5°	759.7	755.5	785.1	1397.1	3537.0	4313.7	4676.7	20424.6	21741.5	20981.7	14777.1
80°	552.9	557.1	586.7	835.7	2401.6	4385.4	3684.8	13679.7	14072.2	10940.4	5829.0
82.5°	333.4	350.3	422.1	565.6	1443.5	3959.1	3406.2	7601.7	7112.1	3511.7	1603.9
85°	177.3	177.3	249.0	358.8	768.2	2954.6	3279.6	3617.2	3030.6	1089.0	595.1
87.5°	42.2	42.2	71.8	143.5	308.1	1414.0	2237.0	1439.3	1152.3	367.2	244.8
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°	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7	8825.7
2.5°	8922.8	8872.2	8935.5	8808.9	8707.6	8711.8	8555.6	8547.2	8526.1	8416.3	8454.3
5°	9024.1	8981.9	8910.2	8770.9	8547.2	8323.5	8188.4	8015.3	7943.6	7905.6	7922.5
7.5°	9121.2	9045.2	8838.4	8644.2	8298.1	7876.1	7631.2	7399.1	7103.6	7069.9	7010.8
10°	9146.5	8986.1	8720.2	8306.6	7846.5	7378.0	6820.9	6390.3	6162.4	5985.1	5917.6
12.5°	9108.5	9041.0	8530.3	7998.5	7302.0	6567.6	5917.6	5309.8	4887.7	4668.2	4609.1
15°	9104.3	8986.1	8319.2	7529.9	6639.4	5681.2	4756.9	4026.7	3583.5	3402.0	3402.0
17.5°	9108.5	8825.7	8070.2	7057.2	5858.5	4562.7	3545.5	2946.1	2701.3	2676.0	2697.1
20°	9024.1	8707.6	7808.5	6500.1	4879.3	3427.3	2574.7	2329.9	2329.9	2363.7	2376.3
22.5°	8948.1	8530.3	7394.9	5812.1	3883.2	2481.8	2093.5	2021.8	2102.0	2161.1	2186.4
25°	8842.6	8382.6	6972.8	5098.8	2954.6	2000.7	1819.2	1836.1	1912.0	2017.6	2009.1
27.5°	8690.7	8125.1	6470.5	4271.5	2199.0	1726.3	1679.9	1688.3	1768.5	1815.0	1806.5
30°	8517.6	7863.4	6006.2	3448.4	1743.2	1582.8	1578.6	1599.7	1612.4	1637.7	1633.5
32.5°	8298.1	7517.3	5512.4	2680.2	1570.1	1502.6	1485.7	1473.1	1485.7	1481.5	1468.8
35°	8142.0	7331.6	5010.1	2042.9	1473.1	1430.9	1418.2	1397.1	1380.2	1354.9	1350.7
37.5°	8099.8	7145.9	4482.5	1667.2	1397.1	1376.0	1333.8	1295.8	1274.7	1262.0	1253.6
40°	8074.4	7023.4	3967.6	1464.6	1333.8	1312.7	1262.0	1211.4	1190.3	1177.6	1181.8
42.5°	8163.1	6955.9	3444.2	1363.3	1278.9	1240.9	1186.1	1127.0	1122.7	1114.3	1127.0
45°	8475.4	7040.3	2958.8	1291.6	1224.0	1160.7	1089.0	1059.4	1055.2	1046.8	1055.2
47.5°	9184.5	7251.4	2545.2	1245.1	1164.9	1110.1	1034.1	991.9	987.7	983.5	983.5
50°	10163.7	7901.4	2199.0	1190.3	1127.0	1051.0	979.2	932.8	924.4	907.5	907.5
52.5°	11700.1	8994.6	1992.2	1160.7	1059.4	996.1	920.1	869.5	848.4	831.5	831.5
55°	13430.7	10349.5	1954.2	1110.1	987.7	928.6	861.0	810.4	789.3	768.2	759.7
57.5°	15401.8	12143.3	2224.4	1076.3	937.0	861.0	785.1	738.6	721.8	700.7	692.2
60°	17237.8	13932.9	3064.3	1025.7	890.6	797.7	721.8	675.3	654.2	633.1	633.1
62.5°	19360.9	16148.9	4486.7	1025.7	848.4	730.2	654.2	620.5	607.8	586.7	582.5
65°	21872.3	18440.8	5525.1	1089.0	835.7	671.1	590.9	557.1	544.5	531.8	527.6
67.5°	23784.3	19757.7	4752.6	1257.8	890.6	620.5	527.6	506.5	498.1	485.4	477.0
70°	23986.9	18955.7	2865.9	1359.1	945.5	569.8	472.7	451.6	451.6	439.0	430.5
72.5°	22167.8	16820.0	1928.9	1211.4	856.8	510.7	417.9	401.0	392.5	384.1	379.9
75°	18550.5	14266.4	1523.7	966.6	658.4	422.1	363.0	346.1	333.4	329.2	320.8
77.5°	12459.9	9273.1	1127.0	755.5	485.4	341.9	303.9	287.0	274.4	270.1	257.5
80°	4786.4	3532.8	726.0	548.7	341.9	270.1	240.6	223.7	215.3	202.6	194.2
82.5°	1409.8	1143.8	405.2	337.7	219.5	185.7	173.1	160.4	147.7	135.1	130.8
85°	582.5	523.4	249.0	177.3	135.1	109.7	101.3	88.6	76.0	67.5	59.1
87.5°	270.1	223.7	114.0	67.5	46.4	25.3	12.7	4.2	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)