

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: P480677

Luminaire Tested: **IFLD-L-SA7A-830-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480677
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

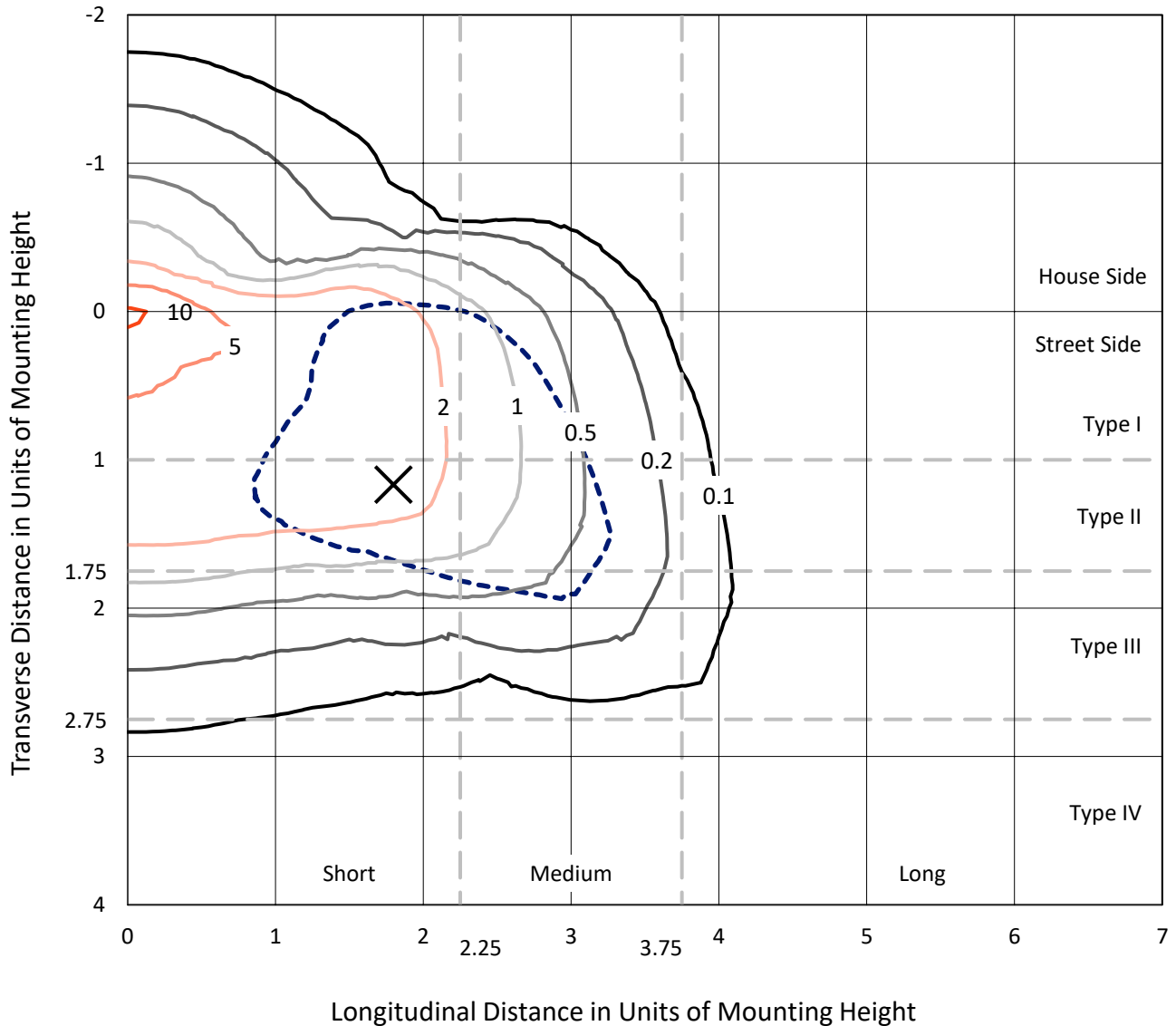
Lumens per Lamp: N/A
Luminaire Lumens: 24541.2 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

REPORT NUMBER: P480677
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

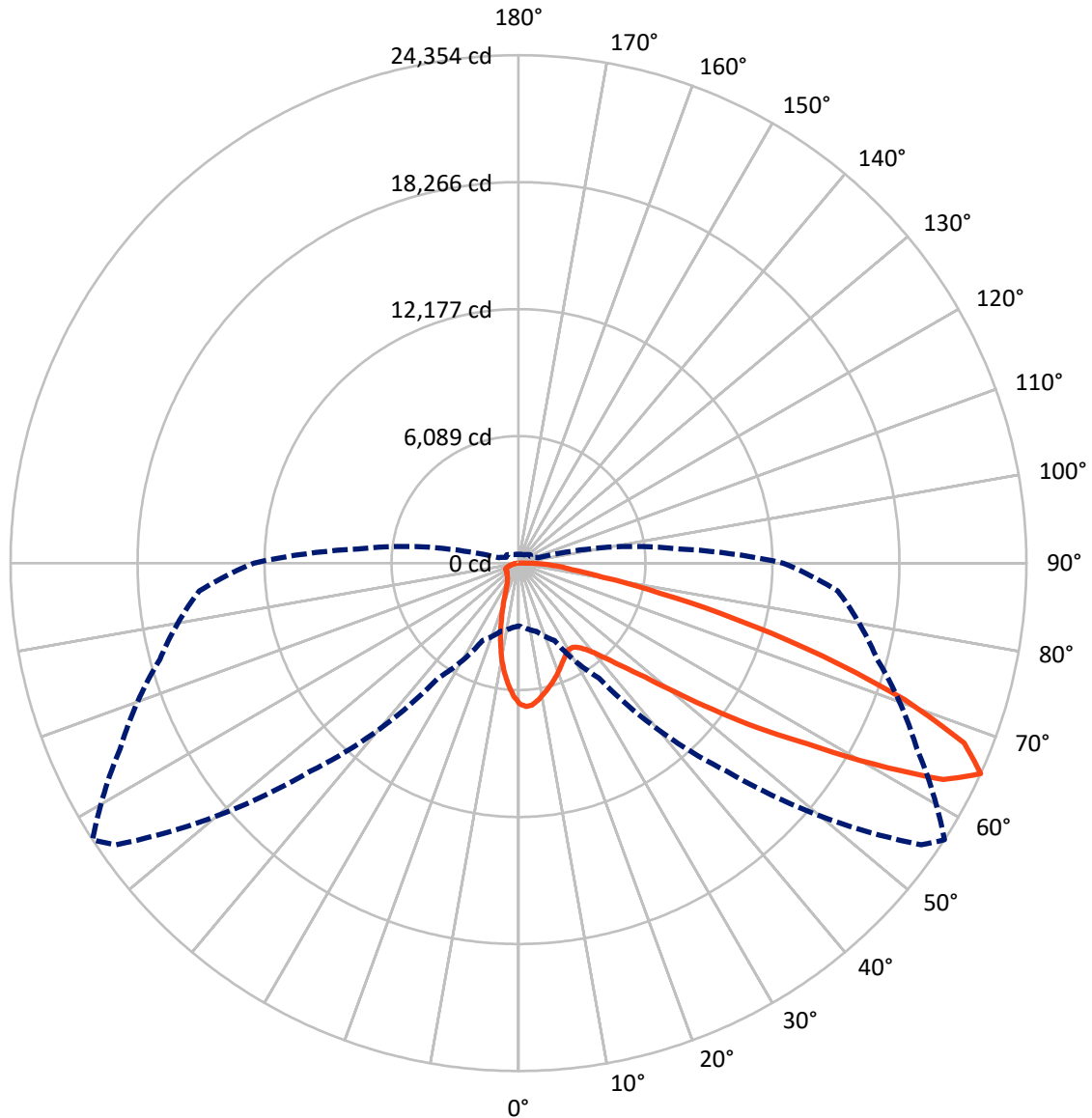
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

REPORT NUMBER: P480677
CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P480677
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3763.6	0.0	3763.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20777.6	0.0	20777.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	24541.2	0.0	24541.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	565.1	2.3
10°-20°	1216.3	5.0
20°-30°	1572.5	6.4
30°-40°	2116.1	8.6
40°-50°	3374.2	13.7
50°-60°	5959.7	24.3
60°-70°	6556.4	26.7
70°-80°	2742.7	11.2
80°-90°	438.3	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°	24541.2	100.0
0°-180°	24541.2	100.0



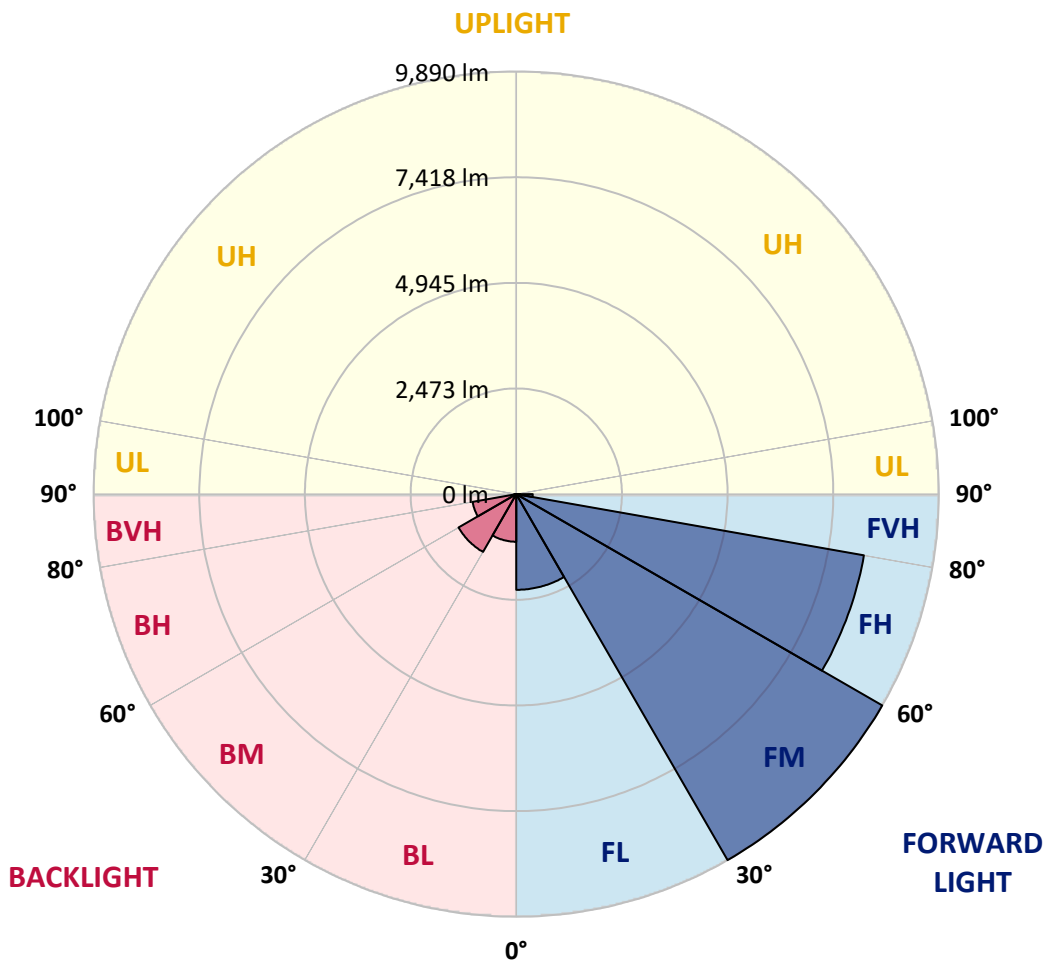
REPORT NUMBER: P480677
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2239.3	9.1			
FM (30°-60°)	9890.1	40.3			
FH (60°-80°)	8261.3	33.7			G4/12000
FVH (80°-90°)	386.9	1.6			G3/500
BL (0°-30°)	1114.6	4.5	B3/2500		
BM (30°-60°)	1559.9	6.4	B2/2500		
BH (60°-80°)	1037.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	51.4	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





REPORT NUMBER: P480677

CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5
2.5°	6930.7	6941.8	6941.8	6963.9	6889.3	6925.2	6919.7	6886.6	6897.6	6839.6	6781.6
5°	6734.7	6726.4	6770.6	6776.1	6834.1	6850.7	6864.5	6842.4	6847.9	6720.9	6665.7
7.5°	6232.1	6229.4	6303.9	6367.4	6488.9	6602.1	6676.7	6654.6	6685.0	6604.9	6475.1
10°	5635.7	5699.2	5776.5	5840.0	6063.7	6207.3	6400.6	6419.9	6535.9	6516.6	6281.8
12.5°	5188.4	5216.0	5274.0	5456.2	5660.6	5898.0	6174.2	6199.0	6312.2	6367.4	6163.1
15°	4821.1	4846.0	4920.5	5055.8	5285.0	5566.7	5917.4	5980.9	6207.3	6226.6	6008.5
17.5°	4553.3	4572.6	4622.3	4757.6	4945.4	5307.1	5638.5	5751.7	6049.9	6143.8	5848.3
20°	4448.4	4407.0	4434.6	4520.2	4707.9	4986.8	5414.8	5514.2	5895.3	6080.3	5696.5
22.5°	4401.4	4365.5	4382.1	4376.6	4525.7	4724.5	5174.6	5279.5	5748.9	6005.7	5561.2
25°	4437.3	4437.3	4420.8	4407.0	4423.5	4553.3	4915.0	5077.9	5552.9	5942.2	5423.1
27.5°	4630.6	4556.1	4564.3	4506.4	4489.8	4489.8	4799.1	4895.7	5489.4	5906.3	5309.9
30°	4754.9	4790.8	4793.5	4707.9	4622.3	4467.7	4691.4	4785.2	5436.9	5950.5	5243.6
32.5°	5072.4	5055.8	5008.9	4992.3	4865.3	4691.4	4743.8	4807.3	5406.5	6049.9	5262.9
35°	5390.0	5381.7	5384.4	5376.2	5243.6	4986.8	4884.7	4970.3	5461.8	6223.9	5329.2
37.5°	5718.5	5740.6	5834.5	5834.5	5693.7	5414.8	5279.5	5254.7	5663.3	6508.3	5486.6
40°	6047.1	6102.4	6221.1	6408.9	6210.1	5950.5	5732.4	5693.7	5906.3	6889.3	5864.9
42.5°	6361.9	6453.0	6687.7	6966.6	6900.4	6640.8	6350.9	6306.7	6406.1	7455.4	6392.3
45°	6765.1	6842.4	7212.4	7640.4	7731.5	7502.3	7162.7	7126.8	7121.3	8283.8	7118.5
47.5°	7378.1	7460.9	7830.9	8261.7	8543.3	8579.2	8198.2	8159.5	8027.0	9402.1	8181.6
50°	8145.7	8281.0	8593.0	9095.6	9504.2	9888.0	9780.3	9667.1	9407.6	10702.6	9529.1
52.5°	8706.2	8871.9	9294.4	9937.7	10658.4	11268.7	11655.2	11655.2	11058.8	12130.2	11149.9
55°	8855.3	8954.7	9487.7	10418.2	11652.5	13196.0	14005.1	13944.3	13024.8	13632.3	13035.9
57.5°	8261.7	8391.4	9037.6	10012.3	12174.4	14999.1	16338.3	16352.1	15173.1	15377.4	14896.9
60°	6627.0	6668.4	7430.5	8733.8	11671.8	16451.5	19524.8	19577.3	17616.8	16932.0	15844.1
62.5°	4580.9	4713.5	5287.8	6431.0	9669.9	16288.6	22598.1	22857.6	19574.5	17752.1	15993.2
65°	3015.3	3095.4	3401.9	4097.7	6731.9	14118.3	23553.5	24354.2	21071.1	17799.0	15369.1
67.5°	2186.9	2200.7	2291.8	2650.8	4045.2	10153.1	21921.6	23050.9	21631.6	17406.9	13905.7
70°	1767.2	1778.2	1811.4	2040.6	2612.1	6353.6	17879.1	19649.1	19950.0	15548.6	11199.6
72.5°	1435.9	1449.7	1491.1	1706.5	2153.8	3534.4	13074.5	15231.1	16227.9	11503.4	7444.3
75°	1129.4	1140.4	1239.8	1452.4	2024.0	2427.1	8673.1	10785.4	10920.7	6723.6	3484.7
77.5°	773.2	792.5	914.0	1231.5	1905.3	2123.4	5406.5	6908.6	6199.0	2631.5	1198.4
80°	491.5	519.1	590.9	933.3	1684.4	2026.8	3363.2	4125.3	2714.3	900.2	577.1
82.5°	289.9	317.5	389.3	604.7	1322.6	1880.4	2369.2	2581.8	1272.9	461.1	347.9
85°	160.2	179.5	234.7	364.5	775.9	1670.6	1897.0	1852.8	729.0	245.8	218.1
87.5°	52.5	60.7	85.6	146.3	320.3	787.0	1137.6	1068.6	378.3	113.2	85.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P480677
 CATALOG NUMBER: IFLD-L-SA7A-830-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5	6748.5
2.5°	6743.0	6734.7	6610.4	6516.6	6356.4	6223.9	6171.4	6099.6	6096.8	6044.4	6030.6
5°	6580.1	6494.5	6303.9	6121.7	5837.3	5646.8	5472.8	5351.3	5301.6	5193.9	5169.1
7.5°	6370.2	6257.0	5964.3	5621.9	5287.8	4989.6	4719.0	4448.4	4296.5	4244.0	4186.1
10°	6152.1	5953.3	5519.7	5135.9	4669.3	4210.9	3785.7	3404.6	3197.5	3051.2	2987.7
12.5°	5978.1	5713.0	5160.8	4586.4	3970.7	3357.7	2863.4	2463.0	2228.3	2117.9	2068.2
15°	5782.1	5431.4	4768.7	4042.5	3274.8	2579.0	2095.8	1781.0	1687.1	1634.7	1626.4
17.5°	5575.0	5169.1	4343.4	3506.8	2595.6	1941.2	1629.1	1502.1	1460.7	1438.6	1427.6
20°	5381.7	4934.4	3907.2	2910.4	2032.3	1557.3	1411.0	1344.7	1342.0	1353.0	1350.3
22.5°	5108.3	4627.9	3476.4	2358.1	1623.6	1355.8	1261.9	1245.3	1261.9	1275.7	1281.2
25°	4953.7	4376.6	2996.0	1872.1	1342.0	1203.9	1173.5	1168.0	1192.9	1209.4	1206.7
27.5°	4793.5	4117.0	2548.6	1499.4	1176.3	1096.2	1090.7	1096.2	1121.1	1145.9	1143.2
30°	4669.3	3909.9	2128.9	1253.6	1049.3	1018.9	1013.4	1018.9	1032.7	1035.5	1035.5
32.5°	4567.1	3664.2	1772.7	1087.9	972.0	947.1	952.6	949.9	952.6	955.4	958.2
35°	4506.4	3517.8	1480.0	985.8	908.5	889.1	886.4	878.1	880.8	883.6	880.8
37.5°	4636.1	3446.0	1248.1	914.0	864.3	847.7	842.2	836.7	828.4	828.4	828.4
40°	4832.2	3407.4	1107.3	867.0	831.1	811.8	795.2	789.7	789.7	792.5	795.2
42.5°	5221.5	3470.9	1010.6	831.1	789.7	767.6	751.1	753.8	762.1	770.4	764.9
45°	5784.8	3664.2	966.4	803.5	764.9	734.5	723.4	720.7	729.0	742.8	753.8
47.5°	6522.1	3965.2	949.9	778.7	748.3	706.9	693.1	701.4	712.4	731.7	723.4
50°	7728.7	4641.7	963.7	756.6	723.4	693.1	676.5	668.2	676.5	690.3	695.8
52.5°	9305.4	5870.4	1016.1	745.5	706.9	682.0	654.4	640.6	648.9	659.9	659.9
55°	11191.3	7549.3	1162.5	731.7	679.3	665.5	635.1	607.5	613.0	613.0	610.2
57.5°	12853.6	8816.7	1336.4	712.4	662.7	643.4	604.7	571.6	566.1	568.8	571.6
60°	13599.2	9153.5	1419.3	706.9	662.7	615.8	563.3	530.2	521.9	516.4	516.4
62.5°	13469.4	8570.9	1250.8	682.0	679.3	593.7	524.6	488.7	477.7	466.7	469.4
65°	12685.2	7739.8	985.8	648.9	682.0	579.9	486.0	450.1	430.8	416.9	414.2
67.5°	11252.1	6607.7	781.4	624.0	654.4	555.0	452.8	411.4	394.9	381.1	375.5
70°	8802.9	5180.1	679.3	590.9	588.1	494.3	414.2	378.3	353.4	336.9	336.9
72.5°	5707.5	3274.8	582.6	524.6	508.1	414.2	359.0	336.9	317.5	303.7	303.7
75°	2584.5	1521.4	469.4	439.0	414.2	331.4	303.7	292.7	276.1	262.3	262.3
77.5°	927.8	648.9	350.7	345.2	309.3	256.8	245.8	237.5	226.4	212.6	212.6
80°	519.1	411.4	262.3	251.3	215.4	190.5	176.7	176.7	171.2	162.9	160.2
82.5°	328.6	267.8	193.3	168.4	140.8	127.0	121.5	118.7	116.0	104.9	102.2
85°	207.1	182.2	127.0	99.4	82.8	63.5	60.7	58.0	52.5	46.9	46.9
87.5°	93.9	104.9	49.7	30.4	22.1	13.8	8.3	2.8	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)