

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: P480629

Luminaire Tested: **IFLD-S-SA6B-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480629
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-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

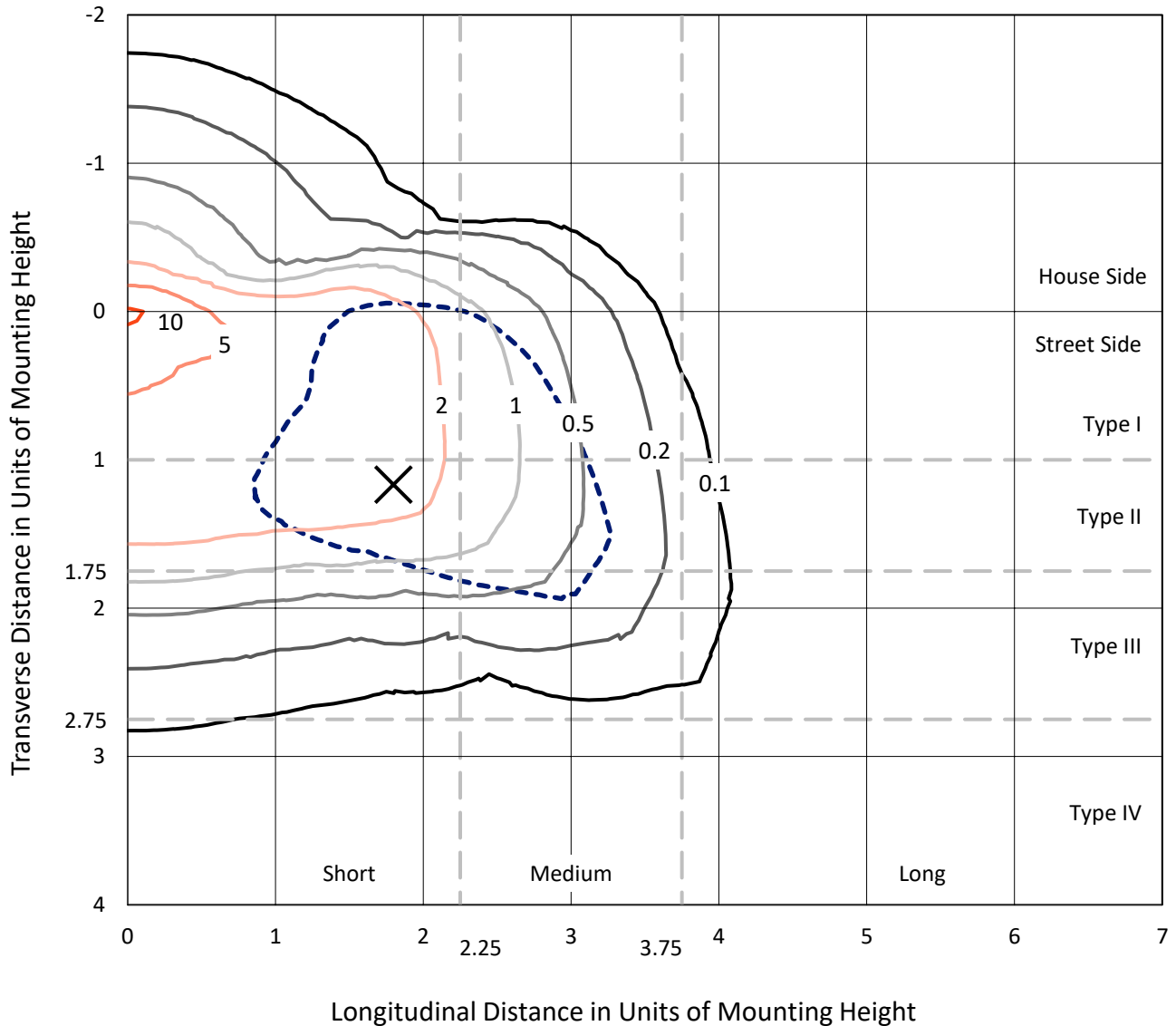
Lumens per Lamp: N/A
Luminaire Lumens: 24211.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244.9
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: P480629
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

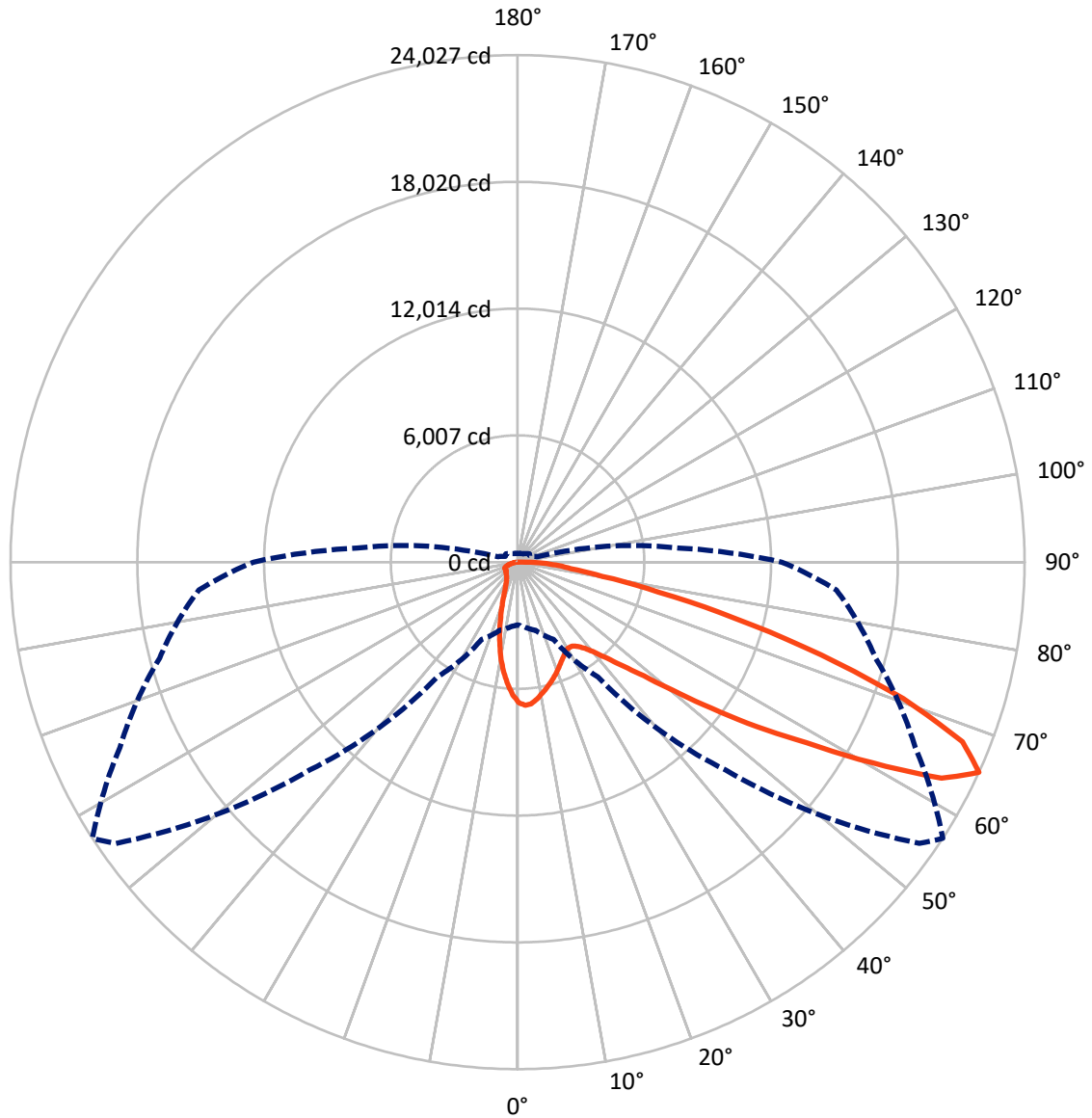
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type III - Short - N/A

REPORT NUMBER: P480629
CATALOG NUMBER: IFLD-S-SA6B-827-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480629

CATALOG NUMBER: IFLD-S-SA6B-827-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3713.1	0.0	3713.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	20498.6	0.0	20498.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	24211.7	0.0	24211.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.5	2.3
10°-20°	1199.9	5.0
20°-30°	1551.4	6.4
30°-40°	2087.7	8.6
40°-50°	3328.9	13.7
50°-60°	5879.6	24.3
60°-70°	6468.4	26.7
70°-80°	2705.8	11.2
80°-90°	432.4	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°	24211.7	100.0
0°-180°	24211.7	100.0

Coefficient of Utilization

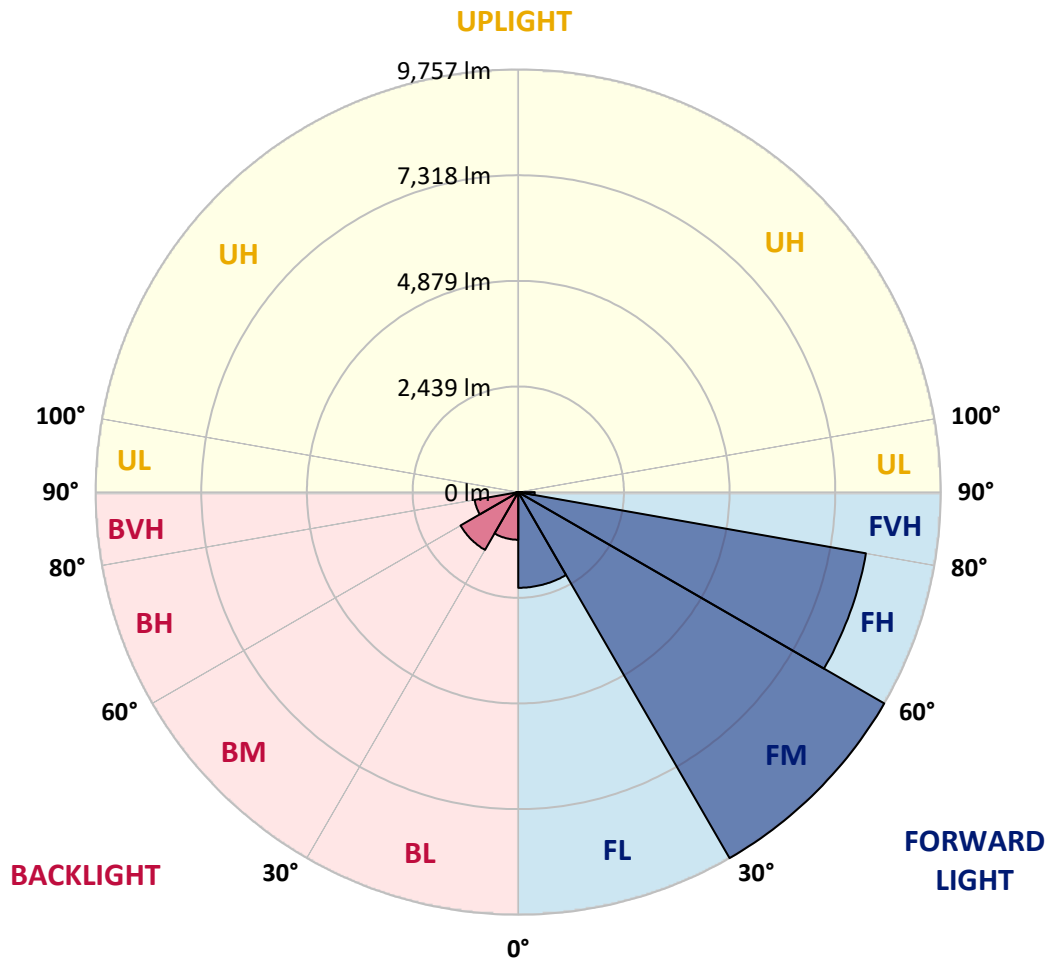


REPORT NUMBER: P480629
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2209.2	9.1			
FM (30°-60°)	9757.3	40.3			
FH (60°-80°)	8150.4	33.7			G4/12000
FVH (80°-90°)	381.7	1.6			G3/500
BL (0°-30°)	1099.6	4.5	B3/2500		
BM (30°-60°)	1538.9	6.4	B2/2500		
BH (60°-80°)	1023.8	4.2	B3/2500		G3/2500
BVH (80°-90°)	50.7	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: P480629

CATALOG NUMBER: IFLD-S-SA6B-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9
2.5°	6837.7	6848.6	6848.6	6870.4	6796.8	6832.2	6826.8	6794.1	6805.0	6747.8	6690.6
5°	6644.2	6636.1	6679.7	6685.1	6742.3	6758.7	6772.3	6750.5	6755.9	6630.6	6576.1
7.5°	6148.5	6145.7	6219.3	6281.9	6401.8	6513.5	6587.0	6565.2	6595.2	6516.2	6388.2
10°	5560.0	5622.7	5699.0	5761.6	5982.3	6123.9	6314.6	6333.7	6448.1	6429.0	6197.5
12.5°	5118.7	5146.0	5203.2	5383.0	5584.5	5818.8	6091.2	6115.8	6227.5	6281.9	6080.3
15°	4756.4	4780.9	4854.5	4988.0	5214.1	5491.9	5837.9	5900.6	6123.9	6143.0	5927.8
17.5°	4492.2	4511.2	4560.3	4693.7	4879.0	5235.9	5562.8	5674.4	5968.7	6061.3	5769.8
20°	4388.6	4347.8	4375.0	4459.5	4644.7	4919.9	5342.1	5440.2	5816.1	5998.6	5620.0
22.5°	4342.3	4306.9	4323.3	4317.8	4464.9	4661.1	5105.1	5208.6	5671.7	5925.1	5486.5
25°	4377.7	4377.7	4361.4	4347.8	4364.1	4492.2	4849.0	5009.7	5478.3	5862.4	5350.3
27.5°	4568.4	4494.9	4503.1	4445.8	4429.5	4429.5	4734.6	4830.0	5415.6	5827.0	5238.6
30°	4691.0	4726.4	4729.2	4644.7	4560.3	4407.7	4628.4	4721.0	5363.9	5870.6	5173.2
32.5°	5004.3	4988.0	4941.6	4925.3	4800.0	4628.4	4680.1	4742.8	5333.9	5968.7	5192.3
35°	5317.6	5309.4	5312.1	5304.0	5173.2	4919.9	4819.1	4903.5	5388.4	6140.3	5257.6
37.5°	5641.8	5663.5	5756.2	5756.2	5617.2	5342.1	5208.6	5184.1	5587.3	6420.9	5412.9
40°	5965.9	6020.4	6137.6	6322.8	6126.7	5870.6	5655.4	5617.2	5827.0	6796.8	5786.1
42.5°	6276.5	6366.4	6597.9	6873.1	6807.7	6551.6	6265.6	6222.0	6320.1	7355.3	6306.5
45°	6674.2	6750.5	7115.5	7537.8	7627.7	7401.6	7066.5	7031.1	7025.6	8172.5	7022.9
47.5°	7279.0	7360.7	7725.7	8150.7	8428.6	8464.0	8088.1	8049.9	7919.2	9275.8	8071.7
50°	8036.3	8169.8	8477.6	8973.4	9376.6	9755.3	9649.0	9537.3	9281.2	10558.9	9401.1
52.5°	8589.3	8752.8	9169.6	9804.3	10515.3	11117.3	11498.7	11498.7	10910.3	11967.3	11000.2
55°	8736.4	8834.5	9360.2	10278.3	11496.0	13018.8	13817.0	13757.1	12849.9	13449.2	12860.8
57.5°	8150.7	8278.8	8916.2	9877.8	12010.9	14797.7	16118.9	16132.5	14969.3	15170.9	14696.9
60°	6538.0	6578.9	7330.7	8616.5	11515.1	16230.6	19262.6	19314.4	17380.2	16704.6	15631.3
62.5°	4519.4	4650.2	5216.8	6344.6	9540.0	16069.9	22294.6	22550.7	19311.6	17513.7	15778.4
65°	2974.8	3053.8	3356.2	4042.7	6641.5	13928.7	23237.2	24027.2	20788.1	17560.0	15162.7
67.5°	2157.5	2171.2	2261.1	2615.2	3990.9	10016.8	21627.2	22741.4	21341.1	17173.2	13718.9
70°	1743.5	1754.4	1787.1	2013.2	2577.1	6268.3	17639.0	19385.2	19682.1	15339.8	11049.2
72.5°	1416.6	1430.2	1471.1	1683.5	2124.9	3486.9	12898.9	15026.5	16009.9	11348.9	7344.4
75°	1114.2	1125.1	1223.2	1432.9	1996.8	2394.5	8556.6	10640.6	10774.1	6633.4	3437.9
77.5°	762.8	781.8	901.7	1215.0	1879.7	2094.9	5333.9	6815.9	6115.8	2596.1	1182.3
80°	484.9	512.1	583.0	920.8	1661.7	1999.5	3318.0	4069.9	2677.9	888.1	569.4
82.5°	286.0	313.3	384.1	596.6	1304.9	1855.2	2337.3	2547.1	1255.8	454.9	343.2
85°	158.0	177.1	231.6	359.6	765.5	1648.1	1871.5	1827.9	719.2	242.5	215.2
87.5°	51.8	59.9	84.4	144.4	316.0	776.4	1122.4	1054.3	373.2	111.7	84.4
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: P480629
 CATALOG NUMBER: IFLD-S-SA6B-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9	6657.9
2.5°	6652.4	6644.2	6521.7	6429.0	6271.0	6140.3	6088.5	6017.7	6015.0	5963.2	5949.6
5°	6491.7	6407.2	6219.3	6039.5	5758.9	5570.9	5399.3	5279.4	5230.4	5124.2	5099.6
7.5°	6284.7	6173.0	5884.2	5546.4	5216.8	4922.6	4655.6	4388.6	4238.8	4187.0	4129.8
10°	6069.5	5873.3	5445.6	5067.0	4606.6	4154.4	3734.8	3358.9	3154.6	3010.2	2947.6
12.5°	5897.8	5636.3	5091.5	4524.8	3917.4	3312.6	2825.0	2430.0	2198.4	2089.4	2040.4
15°	5704.4	5358.4	4704.6	3988.2	3230.9	2544.4	2067.6	1757.1	1664.5	1612.7	1604.5
17.5°	5500.1	5099.6	4285.1	3459.7	2560.7	1915.1	1607.3	1481.9	1441.1	1419.3	1408.4
20°	5309.4	4868.1	3854.7	2871.3	2005.0	1536.4	1392.1	1326.7	1323.9	1334.8	1332.1
22.5°	5039.7	4565.7	3429.7	2326.4	1601.8	1337.6	1244.9	1228.6	1244.9	1258.6	1264.0
25°	4887.2	4317.8	2955.7	1847.0	1323.9	1187.7	1157.8	1152.3	1176.8	1193.2	1190.5
27.5°	4729.2	4061.7	2514.4	1479.2	1160.5	1081.5	1076.0	1081.5	1106.0	1130.5	1127.8
30°	4606.6	3857.4	2100.3	1236.8	1035.2	1005.2	999.8	1005.2	1018.8	1021.6	1021.6
32.5°	4505.8	3615.0	1748.9	1073.3	958.9	934.4	939.8	937.1	939.8	942.6	945.3
35°	4445.8	3470.6	1460.2	972.5	896.3	877.2	874.5	866.3	869.0	871.7	869.0
37.5°	4573.9	3399.8	1231.3	901.7	852.7	836.3	830.9	825.4	817.3	817.3	817.3
40°	4767.3	3361.6	1092.4	855.4	820.0	800.9	784.6	779.1	779.1	781.8	784.6
42.5°	5151.4	3424.3	997.0	820.0	779.1	757.3	741.0	743.7	751.9	760.0	754.6
45°	5707.1	3615.0	953.5	792.7	754.6	724.6	713.7	711.0	719.2	732.8	743.7
47.5°	6434.5	3911.9	937.1	768.2	738.2	697.4	683.8	691.9	702.8	721.9	713.7
50°	7625.0	4579.3	950.7	746.4	713.7	683.8	667.4	659.2	667.4	681.0	686.5
52.5°	9180.5	5791.6	1002.5	735.5	697.4	672.9	645.6	632.0	640.2	651.1	651.1
55°	11041.1	7447.9	1146.9	721.9	670.1	656.5	626.6	599.3	604.8	604.8	602.0
57.5°	12681.0	8698.3	1318.5	702.8	653.8	634.7	596.6	563.9	558.5	561.2	563.9
60°	13416.5	9030.6	1400.2	697.4	653.8	607.5	555.7	523.0	514.9	509.4	509.4
62.5°	13288.5	8455.8	1234.0	672.9	670.1	585.7	517.6	482.2	471.3	460.4	463.1
65°	12514.8	7635.8	972.5	640.2	672.9	572.1	479.5	444.0	425.0	411.3	408.6
67.5°	11101.0	6518.9	770.9	615.7	645.6	547.6	446.8	405.9	389.6	375.9	370.5
70°	8684.7	5110.5	670.1	583.0	580.2	487.6	408.6	373.2	348.7	332.3	332.3
72.5°	5630.9	3230.9	574.8	517.6	501.2	408.6	354.1	332.3	313.3	299.7	299.7
75°	2549.8	1501.0	463.1	433.1	408.6	326.9	299.7	288.8	272.4	258.8	258.8
77.5°	915.3	640.2	346.0	340.5	305.1	253.3	242.5	234.3	223.4	209.8	209.8
80°	512.1	405.9	258.8	247.9	212.5	188.0	174.3	174.3	168.9	160.7	158.0
82.5°	324.2	264.2	190.7	166.2	138.9	125.3	119.9	117.1	114.4	103.5	100.8
85°	204.3	179.8	125.3	98.1	81.7	62.7	59.9	57.2	51.8	46.3	46.3
87.5°	92.6	103.5	49.0	30.0	21.8	13.6	8.2	2.7	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)