

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: P480643

Luminaire Tested: **IFLD-L-SA8A-827-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480643
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

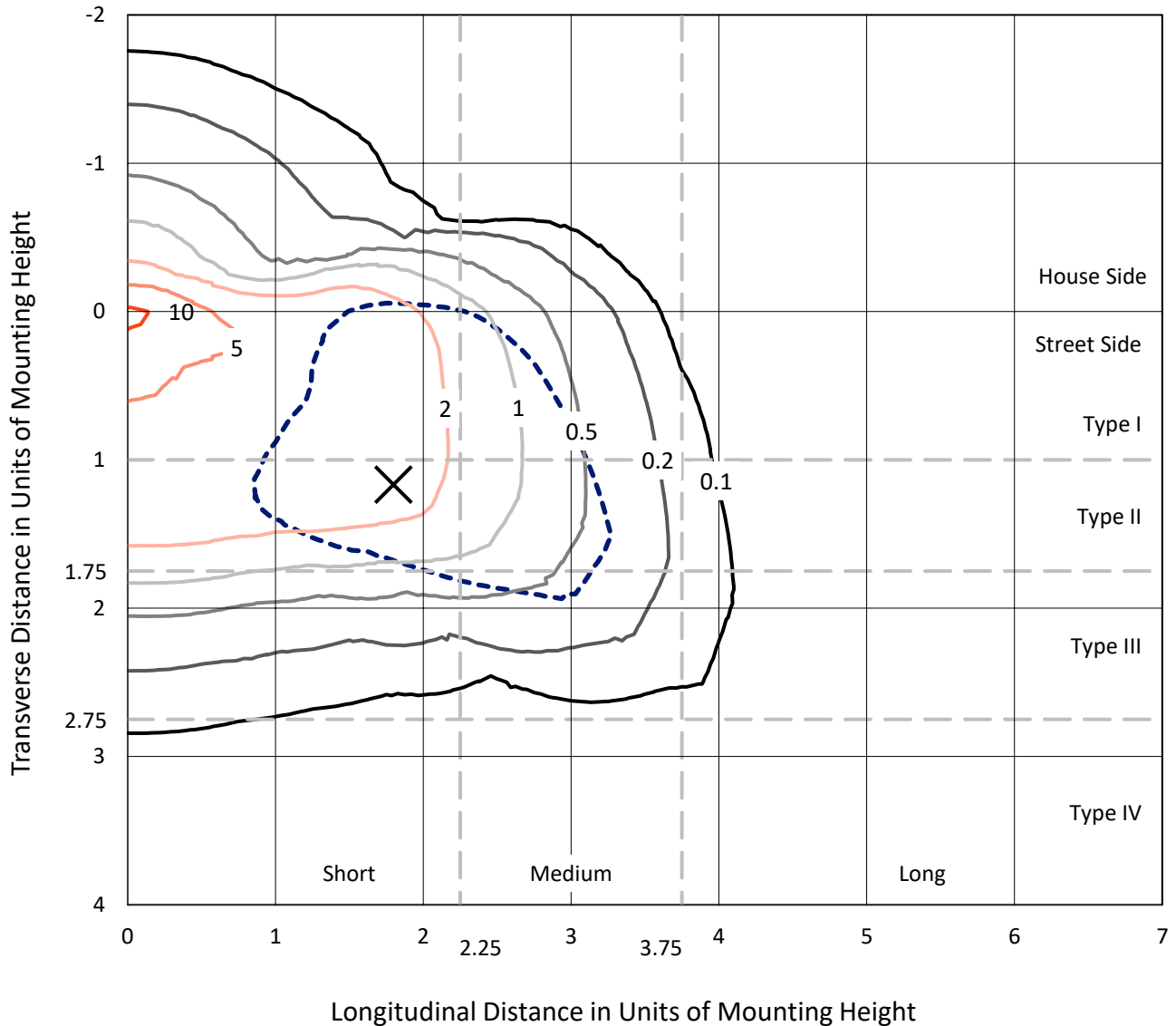
Lumens per Lamp: N/A
Luminaire Lumens: 24847.5 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
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: P480643
 CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

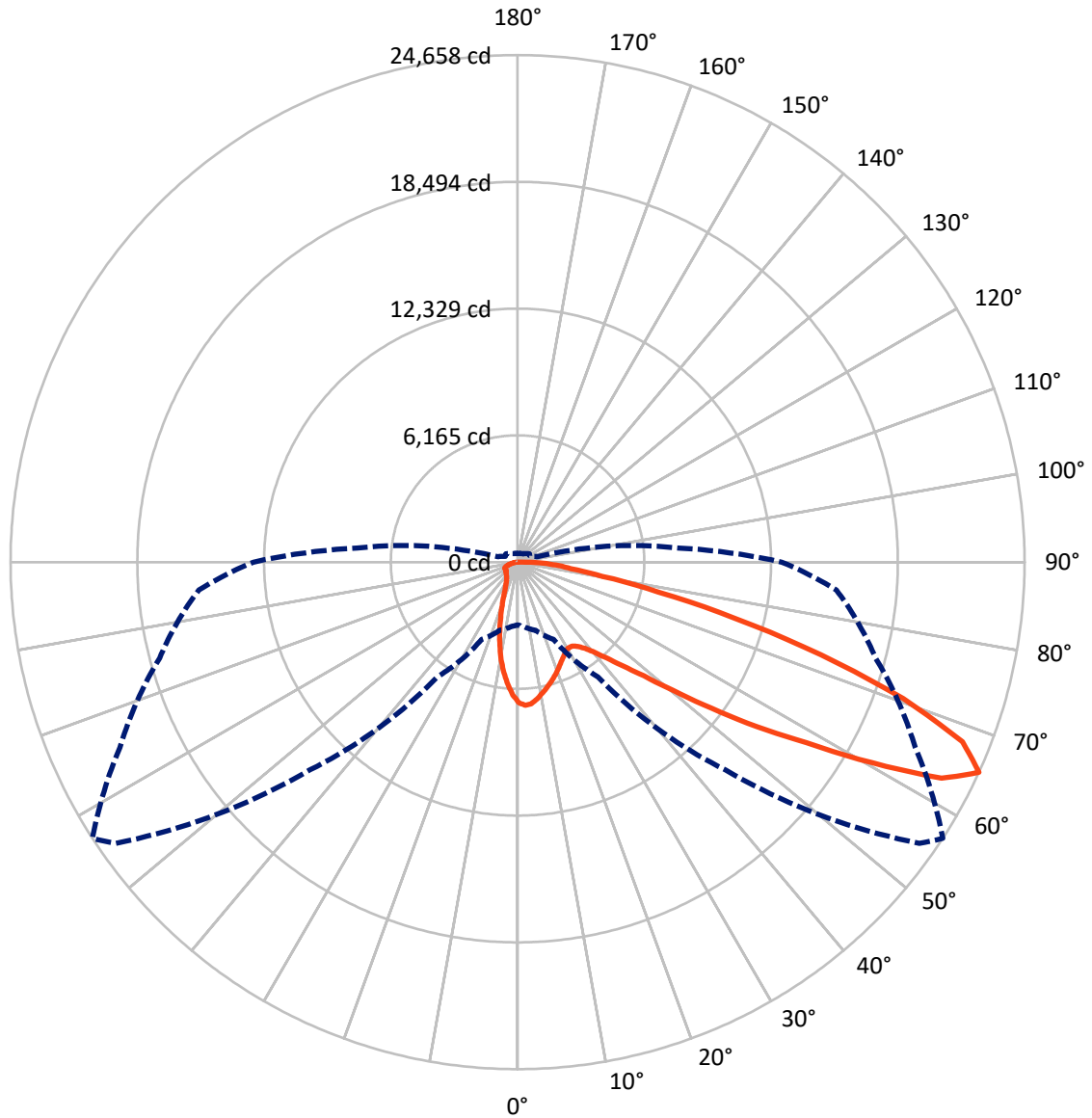
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Short - N/A

REPORT NUMBER: P480643
CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3

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	3810.6	0.0	3810.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	21036.9	0.0	21036.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	24847.5	0.0	24847.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	572.2	2.3
10°-20°	1231.4	5.0
20°-30°	1592.1	6.4
30°-40°	2142.5	8.6
40°-50°	3416.3	13.7
50°-60°	6034.0	24.3
60°-70°	6638.2	26.7
70°-80°	2776.9	11.2
80°-90°	443.8	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°	24847.5	100.0
0°-180°	24847.5	100.0

Coefficient of Utilization



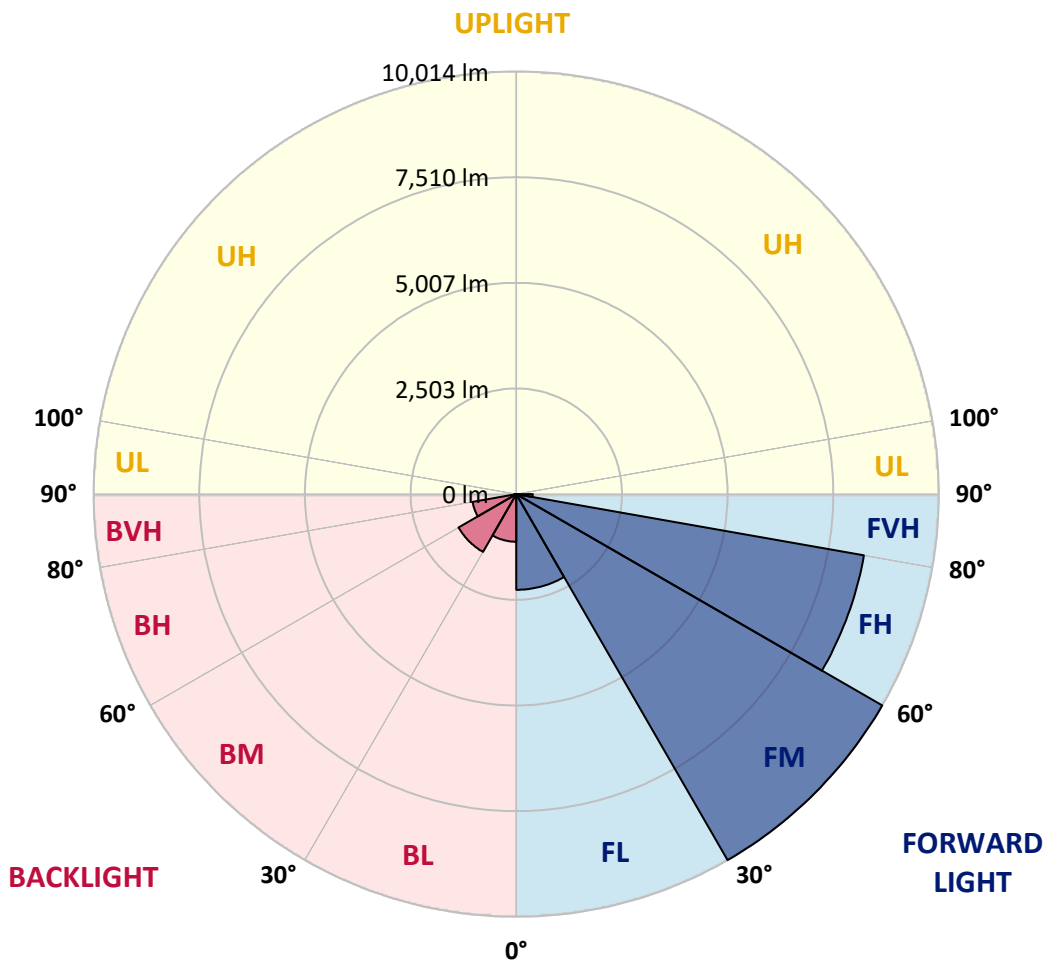
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2267.2	9.1			
FM (30°-60°)	10013.5	40.3			
FH (60°-80°)	8364.4	33.7			G4/12000
FVH (80°-90°)	391.7	1.6			G3/500
BL (0°-30°)	1128.5	4.5	B3/2500		
BM (30°-60°)	1579.3	6.4	B2/2500		
BH (60°-80°)	1050.7	4.2	B3/2500		G3/2500
BVH (80°-90°)	52.1	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: P480643

CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7
2.5°	7017.2	7028.4	7028.4	7050.8	6975.3	7011.6	7006.0	6972.5	6983.7	6925.0	6866.3
5°	6818.7	6810.3	6855.1	6860.7	6919.4	6936.2	6950.1	6927.8	6933.4	6804.8	6748.8
7.5°	6309.9	6307.1	6382.6	6446.9	6569.9	6684.5	6760.0	6737.7	6768.4	6687.3	6555.9
10°	5706.0	5770.3	5848.6	5912.9	6139.4	6284.8	6480.4	6500.0	6617.4	6597.9	6360.2
12.5°	5253.1	5281.1	5339.8	5524.3	5731.2	5971.6	6251.2	6276.4	6391.0	6446.9	6240.0
15°	4881.3	4906.5	4982.0	5118.9	5351.0	5636.1	5991.2	6055.5	6284.8	6304.3	6083.5
17.5°	4610.1	4629.7	4680.0	4817.0	5007.1	5373.3	5708.8	5823.5	6125.4	6220.4	5921.3
20°	4503.9	4461.9	4489.9	4576.6	4766.7	5049.0	5482.4	5583.0	5968.8	6156.1	5767.5
22.5°	4456.4	4420.0	4436.8	4431.2	4582.2	4783.5	5239.2	5345.4	5820.7	6080.7	5630.6
25°	4492.7	4492.7	4475.9	4461.9	4478.7	4610.1	4976.4	5141.3	5622.2	6016.4	5490.8
27.5°	4688.4	4612.9	4621.3	4562.6	4545.8	4545.8	4858.9	4956.8	5557.9	5980.0	5376.1
30°	4814.2	4850.6	4853.3	4766.7	4680.0	4523.5	4749.9	4845.0	5504.7	6024.7	5309.0
32.5°	5135.7	5118.9	5071.4	5054.6	4926.0	4749.9	4803.0	4867.3	5474.0	6125.4	5328.6
35°	5457.2	5448.8	5451.6	5443.2	5309.0	5049.0	4945.6	5032.3	5529.9	6301.5	5395.7
37.5°	5789.9	5812.3	5907.3	5907.3	5764.7	5482.4	5345.4	5320.2	5734.0	6589.5	5555.1
40°	6122.6	6178.5	6298.7	6488.8	6287.5	6024.7	5803.9	5764.7	5980.0	6975.3	5938.1
42.5°	6441.3	6533.6	6771.2	7053.6	6986.5	6723.7	6430.1	6385.4	6486.0	7548.4	6472.1
45°	6849.5	6927.8	7302.4	7735.7	7828.0	7595.9	7252.1	7215.7	7210.1	8387.1	7207.3
47.5°	7470.1	7554.0	7928.6	8364.8	8649.9	8686.3	8300.5	8261.3	8127.1	9519.4	8283.7
50°	8247.3	8384.3	8700.2	9209.1	9622.8	10011.4	9902.4	9787.8	9525.0	10836.2	9648.0
52.5°	8814.9	8982.6	9410.4	10061.8	10791.4	11409.3	11800.7	11800.7	11196.8	12281.5	11289.1
55°	8965.8	9066.5	9606.1	10548.2	11797.9	13360.7	14179.8	14118.3	13187.4	13802.4	13198.5
57.5°	8364.8	8496.2	9150.4	10137.2	12326.3	15186.3	16542.2	16556.2	15362.4	15569.3	15082.8
60°	6709.7	6751.6	7523.2	8842.8	11817.5	16656.8	19768.4	19821.6	17836.6	17143.3	16041.8
62.5°	4638.1	4772.3	5353.8	6511.2	9790.6	16491.9	22880.1	23142.9	19818.8	17973.6	16192.7
65°	3052.9	3134.0	3444.3	4148.8	6815.9	14294.5	23847.4	24658.1	21334.0	18021.1	15560.9
67.5°	2214.2	2228.2	2320.4	2683.9	4095.7	10279.8	22195.1	23338.6	21901.6	17624.1	14079.2
70°	1789.3	1800.4	1834.0	2066.0	2644.7	6432.9	18102.2	19894.3	20199.0	15742.6	11339.4
72.5°	1453.8	1467.7	1509.7	1727.7	2180.7	3578.5	13237.7	15421.1	16430.4	11646.9	7537.2
75°	1143.4	1154.6	1255.3	1470.5	2049.3	2457.4	8781.3	10920.0	11057.0	6807.5	3528.2
77.5°	782.8	802.4	925.4	1246.9	1929.0	2149.9	5474.0	6994.9	6276.4	2664.3	1213.3
80°	497.6	525.6	598.3	944.9	1705.4	2052.0	3405.2	4176.8	2748.2	911.4	584.3
82.5°	293.5	321.5	394.2	612.3	1339.1	1903.9	2398.7	2614.0	1288.8	466.9	352.3
85°	162.2	181.7	237.6	369.0	785.6	1691.4	1920.7	1875.9	738.1	248.8	220.9
87.5°	53.1	61.5	86.7	148.2	324.3	796.8	1151.8	1081.9	383.0	114.6	86.7
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: P480643
 CATALOG NUMBER: IFLD-L-SA8A-827-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7	6832.7
2.5°	6827.1	6818.7	6692.9	6597.9	6435.7	6301.5	6248.4	6175.7	6172.9	6119.8	6105.8
5°	6662.2	6575.5	6382.6	6198.1	5910.1	5717.2	5541.1	5418.1	5367.8	5258.7	5233.6
7.5°	6449.7	6335.1	6038.7	5692.1	5353.8	5051.8	4777.9	4503.9	4350.1	4297.0	4238.3
10°	6228.8	6027.5	5588.6	5200.0	4727.5	4263.5	3832.9	3447.1	3237.4	3089.3	3025.0
12.5°	6052.7	5784.3	5225.2	4643.7	4020.2	3399.6	2899.1	2493.8	2256.1	2144.3	2094.0
15°	5854.2	5499.2	4828.2	4092.9	3315.7	2611.2	2121.9	1803.2	1708.2	1655.1	1646.7
17.5°	5644.5	5233.6	4397.6	3550.5	2628.0	1965.4	1649.5	1520.9	1478.9	1456.6	1445.4
20°	5448.8	4995.9	3955.9	2946.7	2057.6	1576.8	1428.6	1361.5	1358.7	1369.9	1367.1
22.5°	5172.1	4685.6	3519.8	2387.5	1643.9	1372.7	1277.6	1260.9	1277.6	1291.6	1297.2
25°	5015.5	4431.2	3033.3	1895.5	1358.7	1218.9	1188.2	1182.6	1207.7	1224.5	1221.7
27.5°	4853.3	4168.4	2580.4	1518.1	1191.0	1109.9	1104.3	1109.9	1135.1	1160.2	1157.4
30°	4727.5	3958.7	2155.5	1269.3	1062.4	1031.6	1026.0	1031.6	1045.6	1048.4	1048.4
32.5°	4624.1	3709.9	1794.8	1101.5	984.1	958.9	964.5	961.7	964.5	967.3	970.1
35°	4562.6	3561.7	1498.5	998.1	919.8	900.2	897.4	889.0	891.8	894.6	891.8
37.5°	4694.0	3489.0	1263.7	925.4	875.1	858.3	852.7	847.1	838.7	838.7	838.7
40°	4892.5	3449.9	1121.1	877.9	841.5	821.9	805.2	799.6	799.6	802.4	805.2
42.5°	5286.7	3514.2	1023.2	841.5	799.6	777.2	760.4	763.2	771.6	780.0	774.4
45°	5857.0	3709.9	978.5	813.6	774.4	743.7	732.5	729.7	738.1	752.0	763.2
47.5°	6603.5	4014.6	961.7	788.4	757.6	715.7	701.7	710.1	721.3	740.9	732.5
50°	7825.2	4699.6	975.7	766.0	732.5	701.7	684.9	676.6	684.9	698.9	704.5
52.5°	9421.5	5943.7	1028.8	754.8	715.7	690.5	662.6	648.6	657.0	668.2	668.2
55°	11331.0	7643.5	1177.0	740.9	687.7	673.8	643.0	615.1	620.6	620.6	617.9
57.5°	13014.0	8926.7	1353.1	721.3	671.0	651.4	612.3	578.7	573.1	575.9	578.7
60°	13768.9	9267.8	1437.0	715.7	671.0	623.4	570.3	536.8	528.4	522.8	522.8
62.5°	13637.5	8677.9	1266.5	690.5	687.7	601.1	531.2	494.8	483.7	472.5	475.3
65°	12843.5	7836.4	998.1	657.0	690.5	587.1	492.0	455.7	436.1	422.2	419.4
67.5°	11392.5	6690.1	791.2	631.8	662.6	561.9	458.5	416.6	399.8	385.8	380.2
70°	8912.7	5244.7	687.7	598.3	595.5	500.4	419.4	383.0	357.9	341.1	341.1
72.5°	5778.7	3315.7	589.9	531.2	514.4	419.4	363.4	341.1	321.5	307.5	307.5
75°	2616.8	1540.4	475.3	444.5	419.4	335.5	307.5	296.3	279.6	265.6	265.6
77.5°	939.4	657.0	355.1	349.5	313.1	260.0	248.8	240.4	229.2	215.3	215.3
80°	525.6	416.6	265.6	254.4	218.1	192.9	178.9	178.9	173.3	164.9	162.2
82.5°	332.7	271.2	195.7	170.5	142.6	128.6	123.0	120.2	117.4	106.2	103.4
85°	209.7	184.5	128.6	100.6	83.9	64.3	61.5	58.7	53.1	47.5	47.5
87.5°	95.1	106.2	50.3	30.8	22.4	14.0	8.4	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)