

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: P480421

Luminaire Tested: **IFLD-S-SA3D-730-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-730-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

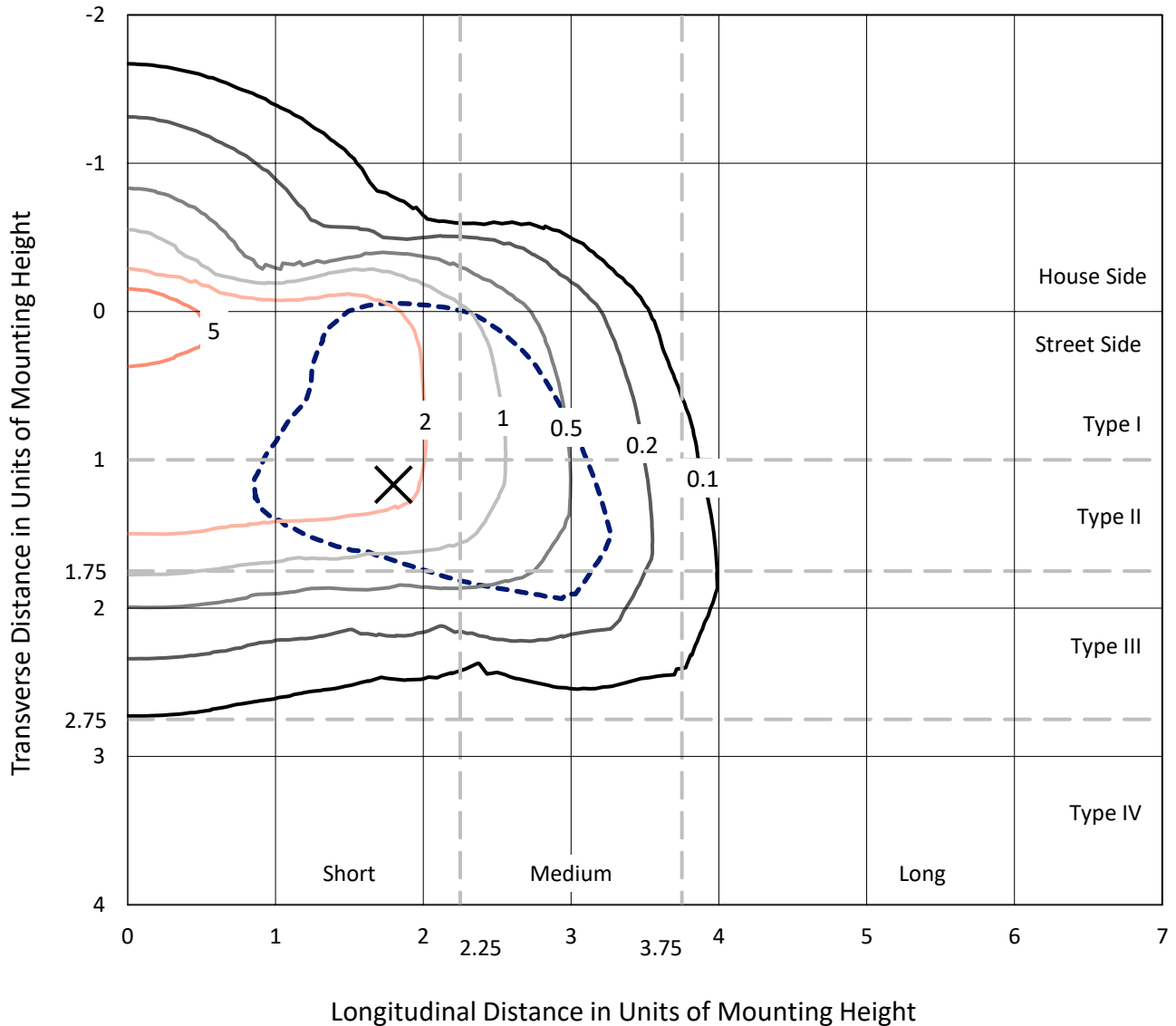
Lumens per Lamp: N/A
Luminaire Lumens: 20941.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 184.1
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: P480421
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

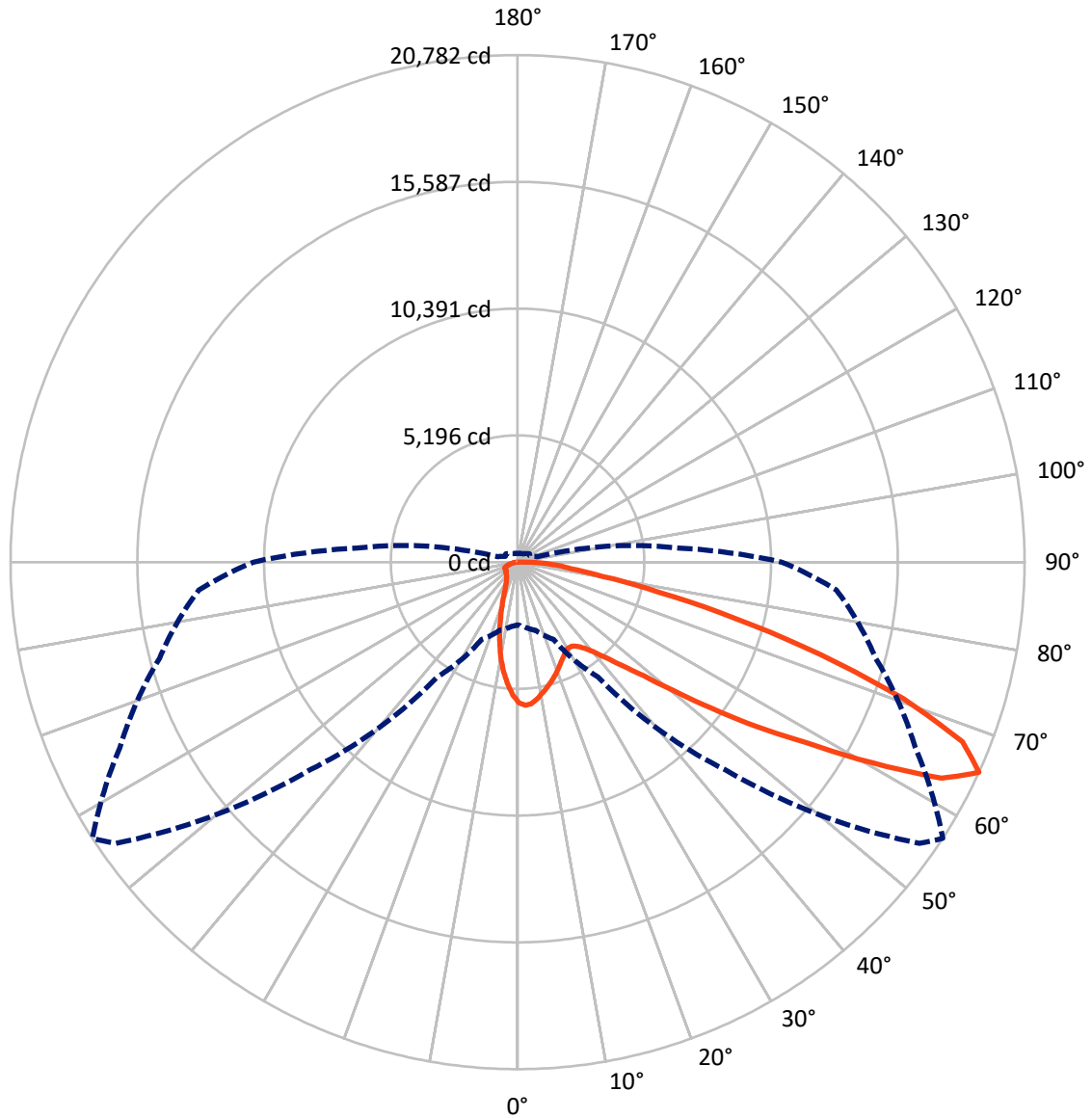
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type III - Short - N/A

REPORT NUMBER: P480421
CATALOG NUMBER: IFLD-S-SA3D-730-U-SL3

Luminous Intensity Polar Plot



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

REPORT NUMBER: P480421
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SL3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3211.6	0.0	3211.6
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17730.0	0.0	17730.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	20941.6	0.0	20941.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.2	2.3
10°-20°	1037.9	5.0
20°-30°	1341.9	6.4
30°-40°	1805.7	8.6
40°-50°	2879.3	13.7
50°-60°	5085.5	24.3
60°-70°	5594.7	26.7
70°-80°	2340.4	11.2
80°-90°	374.0	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°	20941.6	100.0
0°-180°	20941.6	100.0

Coefficient of Utilization



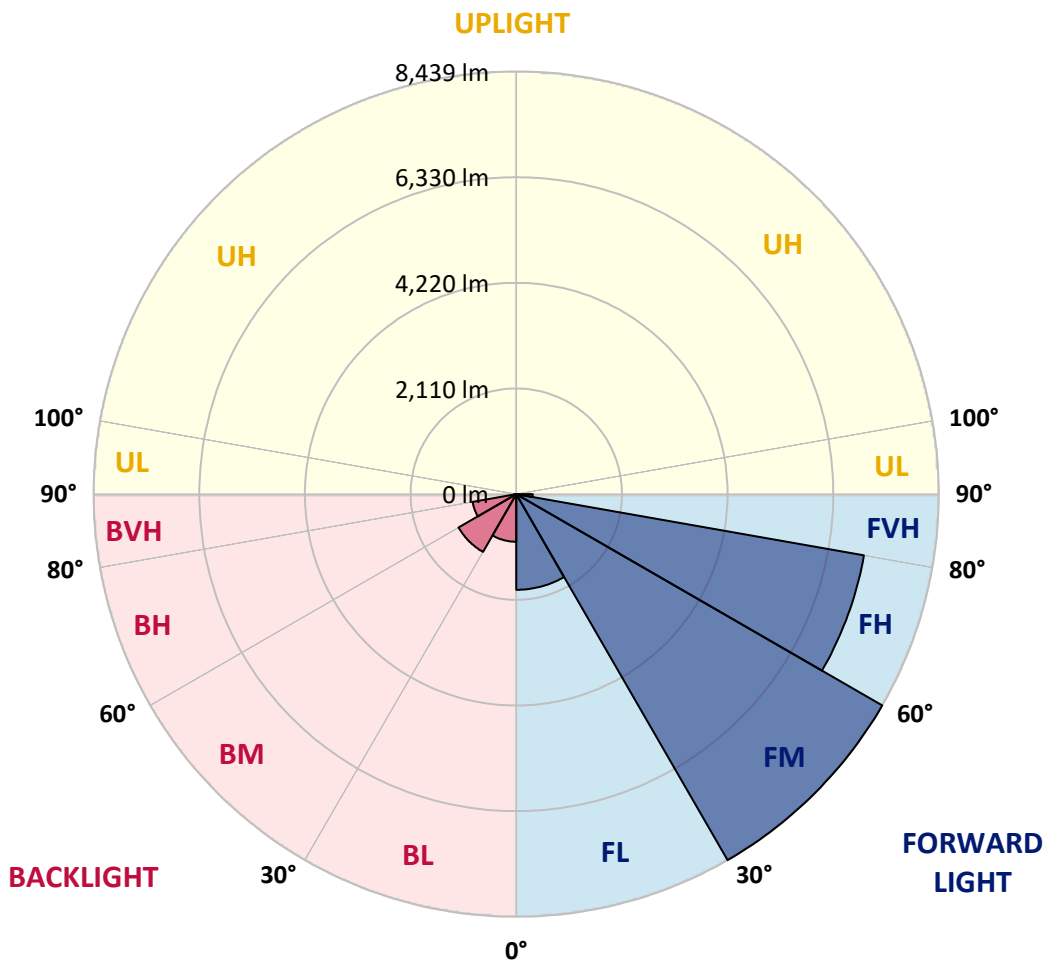
REPORT NUMBER: P480421
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1910.8	9.1			
FM (30°-60°)	8439.5	40.3			
FH (60°-80°)	7049.6	33.7			G3/7500
FVH (80°-90°)	330.2	1.6			G3/500
BL (0°-30°)	951.1	4.5	B2/1000		
BM (30°-60°)	1331.1	6.4	B2/2500		
BH (60°-80°)	885.5	4.2	B2/1000		G2/1000
BVH (80°-90°)	43.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Short





REPORT NUMBER: P480421

CATALOG NUMBER: IFLD-S-SA3D-730-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7
2.5°	5914.2	5923.6	5923.6	5942.4	5878.8	5909.5	5904.7	5876.5	5885.9	5836.4	5786.9
5°	5746.9	5739.8	5777.5	5782.2	5831.7	5845.8	5857.6	5838.8	5843.5	5735.1	5688.0
7.5°	5318.0	5315.7	5379.3	5433.5	5537.2	5633.8	5697.4	5678.5	5704.5	5636.1	5525.4
10°	4809.1	4863.3	4929.3	4983.5	5174.3	5296.8	5461.8	5478.3	5577.2	5560.7	5360.4
12.5°	4427.4	4450.9	4500.4	4655.9	4830.3	5032.9	5268.6	5289.8	5386.4	5433.5	5259.1
15°	4114.0	4135.2	4198.8	4314.3	4509.8	4750.2	5049.4	5103.6	5296.8	5313.3	5127.2
17.5°	3885.4	3901.9	3944.3	4059.8	4220.0	4528.7	4811.4	4908.1	5162.5	5242.6	4990.5
20°	3795.9	3760.6	3784.1	3857.2	4017.4	4255.4	4620.6	4705.4	5030.6	5188.4	4860.9
22.5°	3755.8	3725.2	3739.4	3734.6	3861.9	4031.5	4415.6	4505.1	4905.7	5124.8	4745.5
25°	3786.5	3786.5	3772.3	3760.6	3774.7	3885.4	4194.1	4333.1	4738.4	5070.6	4627.7
27.5°	3951.4	3887.8	3894.9	3845.4	3831.2	3831.2	4095.1	4177.6	4684.2	5040.0	4531.1
30°	4057.4	4088.1	4090.4	4017.4	3944.3	3812.4	4003.3	4083.4	4639.4	5077.7	4474.5
32.5°	4328.4	4314.3	4274.2	4260.1	4151.7	4003.3	4048.0	4102.2	4613.5	5162.5	4491.0
35°	4599.4	4592.3	4594.7	4587.6	4474.5	4255.4	4168.2	4241.2	4660.6	5311.0	4547.5
37.5°	4879.8	4898.6	4978.7	4978.7	4858.6	4620.6	4505.1	4483.9	4832.7	5553.7	4681.9
40°	5160.2	5207.3	5308.6	5468.8	5299.2	5077.7	4891.6	4858.6	5040.0	5878.8	5004.7
42.5°	5428.8	5506.5	5706.8	5944.8	5888.2	5666.8	5419.4	5381.7	5466.5	6361.9	5454.7
45°	5772.8	5838.8	6154.5	6519.7	6597.5	6401.9	6112.1	6081.5	6076.7	7068.7	6074.4
47.5°	6295.9	6366.6	6682.3	7049.9	7290.2	7320.8	6995.7	6962.7	6849.6	8023.0	6981.5
50°	6950.9	7066.4	7332.6	7761.5	8110.2	8437.7	8345.8	8249.2	8027.7	9132.8	8131.4
52.5°	7429.2	7570.6	7931.1	8480.1	9095.1	9615.8	9945.7	9945.7	9436.7	10351.0	9514.5
55°	7556.5	7641.3	8096.0	8890.1	9943.3	11260.5	11950.9	11899.0	11114.4	11632.8	11123.8
57.5°	7049.9	7160.6	7712.0	8543.7	10388.7	12799.1	13941.9	13953.7	12947.5	13121.9	12711.9
60°	5655.0	5690.3	6340.6	7452.8	9959.8	14038.5	16661.0	16705.8	15032.8	14448.5	13520.1
62.5°	3909.0	4022.1	4512.2	5487.7	8251.6	13899.5	19283.5	19505.0	16703.4	15148.3	13647.4
65°	2573.0	2641.3	2902.9	3496.7	5744.5	12047.5	20098.7	20782.1	17980.5	15188.3	13114.8
67.5°	1866.1	1877.9	1955.7	2262.0	3451.9	8663.9	18706.2	19669.9	18458.8	14853.7	11866.0
70°	1508.0	1517.4	1545.7	1741.3	2229.0	5421.7	15256.7	16767.0	17023.8	13268.0	9556.9
72.5°	1225.2	1237.0	1272.4	1456.2	1837.9	3016.0	11156.8	12997.0	13847.6	9816.1	6352.4
75°	963.7	973.1	1058.0	1239.4	1727.1	2071.1	7401.0	9203.5	9318.9	5737.4	2973.6
77.5°	659.7	676.2	779.9	1050.9	1625.8	1811.9	4613.5	5895.3	5289.8	2245.5	1022.6
80°	419.4	443.0	504.2	796.4	1437.3	1729.5	2869.9	3520.2	2316.2	768.1	492.5
82.5°	247.4	271.0	332.2	516.0	1128.6	1604.6	2021.7	2203.1	1086.2	393.5	296.9
85°	136.7	153.2	200.3	311.0	662.1	1425.5	1618.7	1581.0	622.0	209.7	186.1
87.5°	44.8	51.8	73.0	124.9	273.3	671.5	970.8	911.9	322.8	96.6	73.0
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: P480421
 CATALOG NUMBER: IFLD-S-SA3D-730-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7	5758.7
2.5°	5753.9	5746.9	5640.8	5560.7	5424.1	5311.0	5266.2	5204.9	5202.6	5157.8	5146.0
5°	5614.9	5541.9	5379.3	5223.8	4981.1	4818.5	4670.1	4566.4	4524.0	4432.1	4410.9
7.5°	5435.8	5339.2	5089.5	4797.3	4512.2	4257.7	4026.8	3795.9	3666.3	3621.5	3572.1
10°	5249.7	5080.1	4710.1	4382.6	3984.4	3593.3	3230.4	2905.2	2728.5	2603.6	2549.5
12.5°	5101.3	4875.1	4403.8	3913.7	3388.3	2865.2	2443.4	2101.8	1901.5	1807.2	1764.8
15°	4934.0	4634.7	4069.2	3449.5	2794.5	2200.7	1788.4	1519.8	1439.7	1394.9	1387.8
17.5°	4757.3	4410.9	3706.4	2992.4	2214.9	1656.4	1390.2	1281.8	1246.5	1227.6	1218.2
20°	4592.3	4210.6	3334.1	2483.5	1734.2	1328.9	1204.0	1147.5	1145.1	1154.6	1152.2
22.5°	4359.0	3949.1	2966.5	2012.2	1385.5	1156.9	1076.8	1062.7	1076.8	1088.6	1093.3
25°	4227.1	3734.6	2556.5	1597.5	1145.1	1027.3	1001.4	996.7	1017.9	1032.0	1029.7
27.5°	4090.4	3513.2	2174.8	1279.4	1003.8	935.4	930.7	935.4	956.6	977.8	975.5
30°	3984.4	3336.4	1816.7	1069.7	895.4	869.5	864.7	869.5	881.2	883.6	883.6
32.5°	3897.2	3126.7	1512.7	928.4	829.4	808.2	812.9	810.5	812.9	815.3	817.6
35°	3845.4	3001.9	1262.9	841.2	775.2	758.7	756.4	749.3	751.6	754.0	751.6
37.5°	3956.1	2940.6	1065.0	779.9	737.5	723.4	718.7	713.9	706.9	706.9	706.9
40°	4123.4	2907.6	944.9	739.9	709.2	692.7	678.6	673.9	673.9	676.2	678.6
42.5°	4455.7	2961.8	862.4	709.2	673.9	655.0	640.9	643.3	650.3	657.4	652.7
45°	4936.3	3126.7	824.7	685.7	652.7	626.8	617.3	615.0	622.0	633.8	643.3
47.5°	5565.4	3383.6	810.5	664.5	638.5	603.2	591.4	598.5	607.9	624.4	617.3
50°	6595.1	3960.8	822.3	645.6	617.3	591.4	577.3	570.2	577.3	589.1	593.8
52.5°	7940.5	5009.4	867.1	636.2	603.2	582.0	558.4	546.6	553.7	563.1	563.1
55°	9549.8	6442.0	992.0	624.4	579.6	567.9	541.9	518.4	523.1	523.1	520.7
57.5°	10968.3	7523.5	1140.4	607.9	565.5	549.0	516.0	487.7	483.0	485.4	487.7
60°	11604.5	7810.9	1211.1	603.2	565.5	525.4	480.7	452.4	445.3	440.6	440.6
62.5°	11493.7	7313.8	1067.4	582.0	579.6	506.6	447.7	417.1	407.6	398.2	400.6
65°	10824.6	6604.5	841.2	553.7	582.0	494.8	414.7	384.1	367.6	355.8	353.4
67.5°	9601.7	5638.5	666.8	532.5	558.4	473.6	386.4	351.1	336.9	325.2	320.4
70°	7511.7	4420.3	579.6	504.2	501.9	421.8	353.4	322.8	301.6	287.5	287.5
72.5°	4870.4	2794.5	497.2	447.7	433.5	353.4	306.3	287.5	271.0	259.2	259.2
75°	2205.4	1298.3	400.6	374.6	353.4	282.7	259.2	249.8	235.6	223.8	223.8
77.5°	791.7	553.7	299.2	294.5	263.9	219.1	209.7	202.6	193.2	181.4	181.4
80°	443.0	351.1	223.8	214.4	183.8	162.6	150.8	150.8	146.1	139.0	136.7
82.5°	280.4	228.6	164.9	143.7	120.2	108.4	103.7	101.3	99.0	89.5	87.2
85°	176.7	155.5	108.4	84.8	70.7	54.2	51.8	49.5	44.8	40.1	40.1
87.5°	80.1	89.5	42.4	25.9	18.8	11.8	7.1	2.4	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)