

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: P476945

Luminaire Tested: **IFLD-S-SA2D-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476945
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

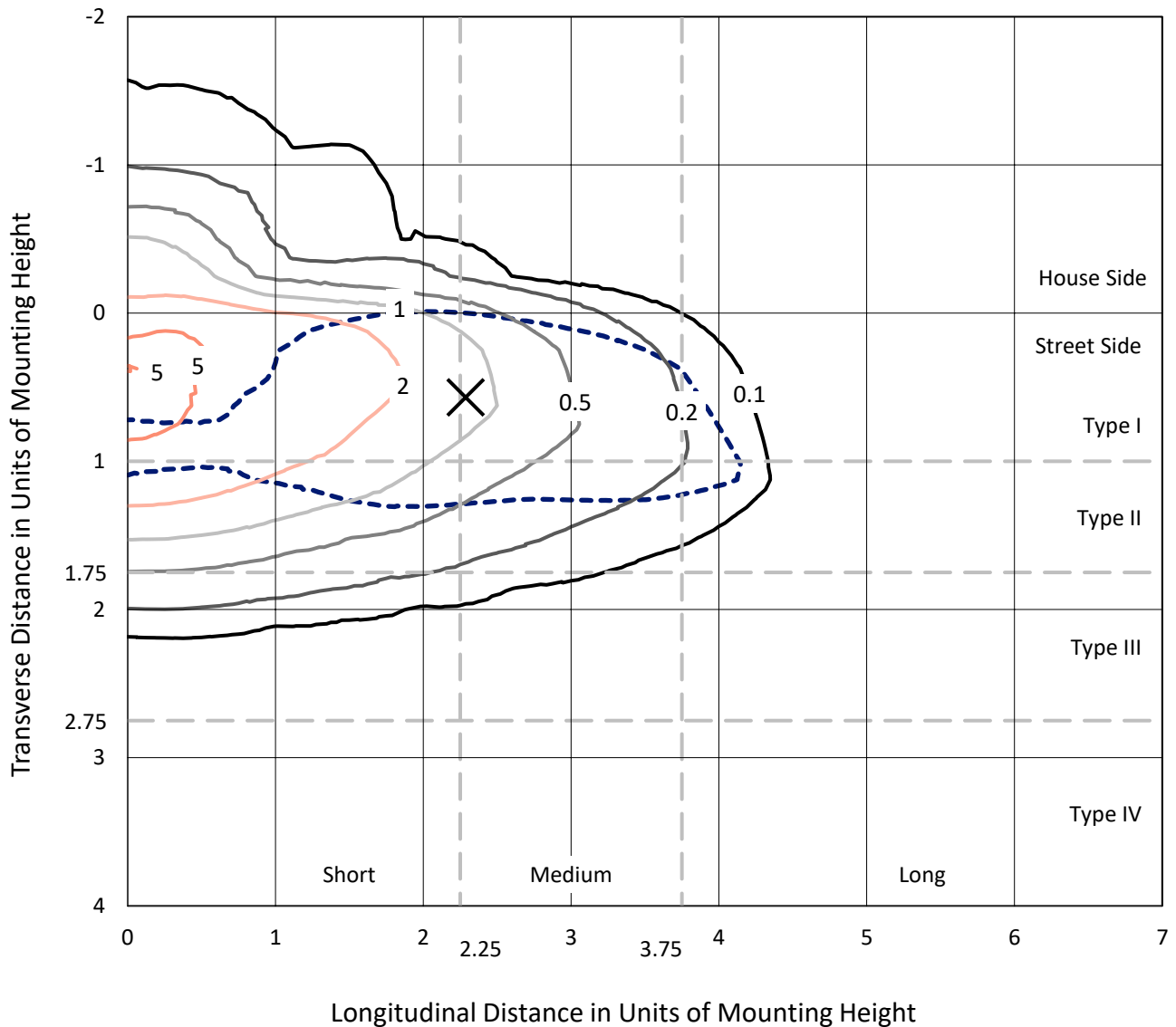
Lumens per Lamp: N/A
Luminaire Lumens: 15512 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 123.9
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

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Iso-Footcandle Lines of Horizontal Illumination

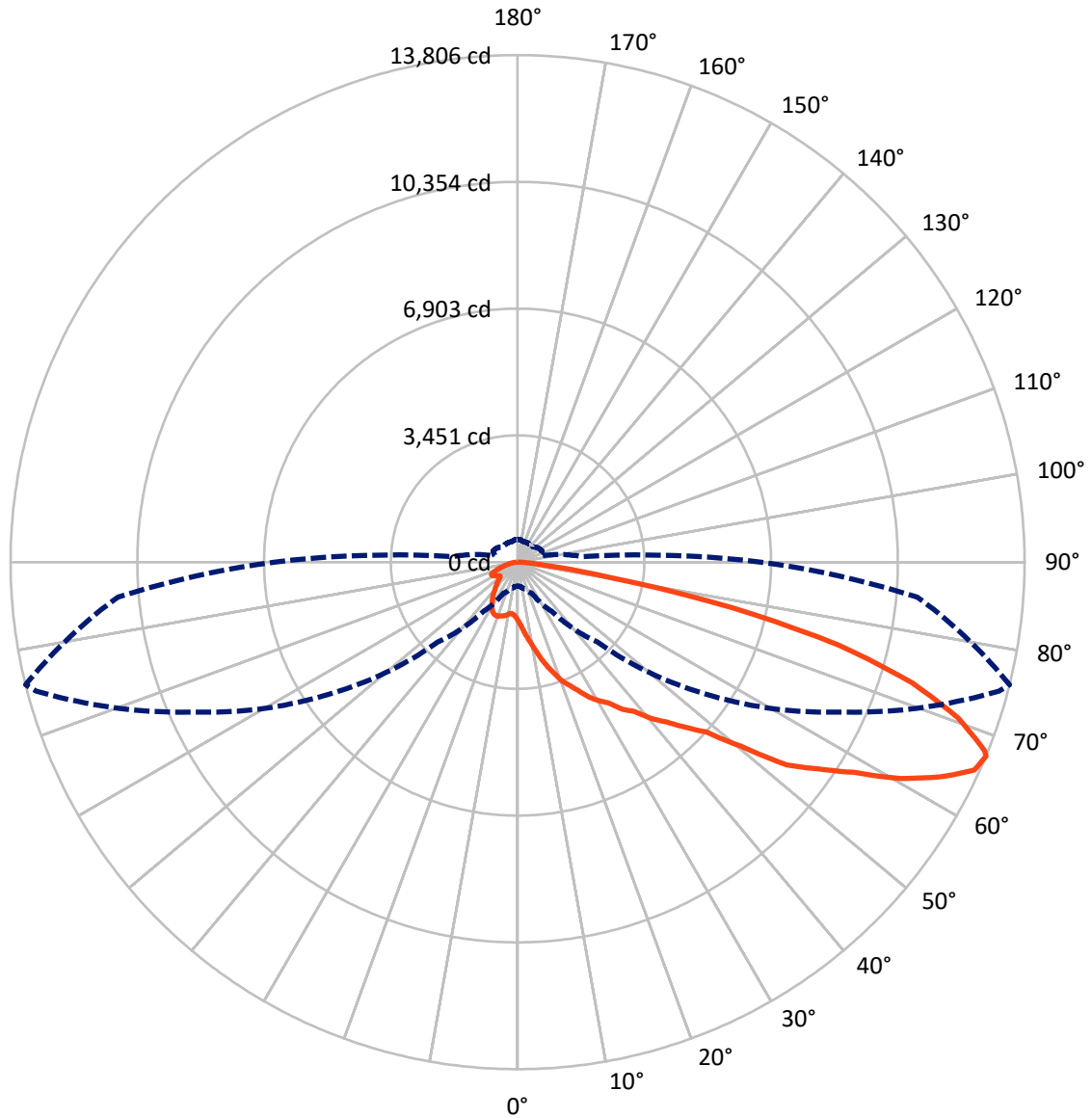
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2206.8	0.0	2206.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13305.2	0.0	13305.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	15512.0	0.0	15512.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	1.2
10°-20°	689.6	4.4
20°-30°	1282.1	8.3
30°-40°	2032.5	13.1
40°-50°	2811.1	18.1
50°-60°	3457.8	22.3
60°-70°	3217.7	20.7
70°-80°	1614.6	10.4
80°-90°	222.6	1.4
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°	15512.0	100.0
0°-180°	15512.0	100.0

Coefficient of Utilization

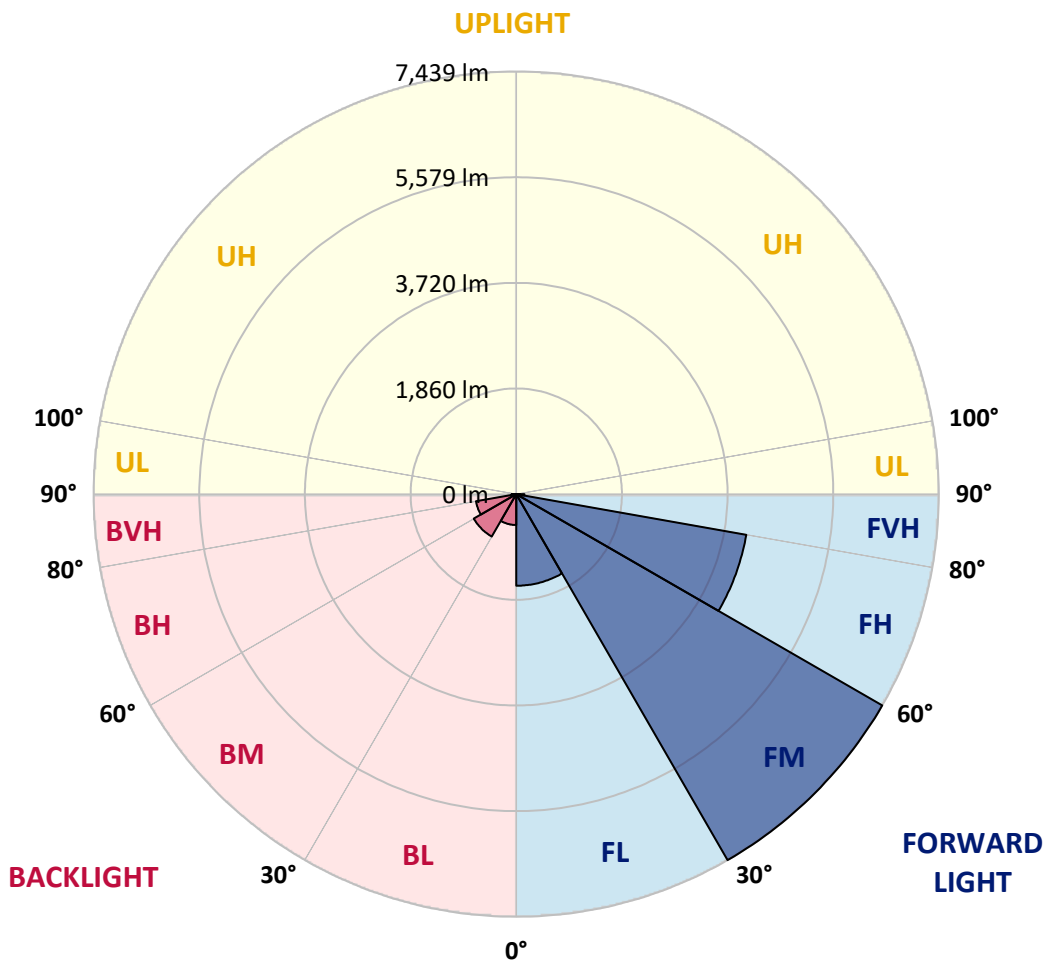


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1612.2	10.4			
FM (30°-60°)	7439.0	48.0			
FH (60°-80°)	4112.1	26.5			G2/5000
FVH (80°-90°)	141.8	0.9			G2/225
BL (0°-30°)	543.4	3.5	B2/1000		
BM (30°-60°)	862.4	5.6	B1/1000		
BH (60°-80°)	720.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	80.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4
2.5°	2202.6	2176.1	2149.5	2093.0	2073.5	2020.5	1923.3	1815.4	1727.1	1714.7	1652.8
5°	2732.9	2694.0	2685.2	2653.3	2552.6	2450.1	2291.0	2117.7	1902.1	1918.0	1705.8
7.5°	3130.6	3107.6	3059.9	3029.9	2969.8	2833.7	2669.3	2439.5	2165.5	2112.4	1824.3
10°	3431.1	3399.3	3397.6	3371.0	3339.2	3199.6	3074.1	2764.7	2412.9	2340.5	1969.2
12.5°	3583.2	3577.9	3671.6	3671.6	3659.2	3600.8	3385.2	3102.3	2648.0	2623.3	2137.2
15°	3747.6	3703.4	3784.7	3846.6	3878.4	3908.4	3729.9	3431.1	2948.6	2900.8	2317.5
17.5°	3747.6	3744.0	3825.3	3927.9	4094.0	4132.9	4035.7	3733.4	3197.8	3162.4	2515.5
20°	3683.9	3735.2	3791.8	3929.6	4109.9	4267.3	4295.6	4042.8	3473.6	3445.3	2740.0
22.5°	3980.9	3931.4	3989.7	4042.8	4182.4	4421.1	4498.8	4315.0	3763.5	3655.6	2943.3
25°	4479.4	4445.8	4403.4	4325.6	4383.9	4488.2	4606.7	4516.5	4011.0	3890.7	3139.5
27.5°	4965.5	4967.3	4875.4	4705.7	4580.2	4601.4	4741.0	4693.3	4219.5	4166.5	3273.8
30°	5656.7	5614.3	5511.7	5281.9	5036.2	4834.7	4811.7	4857.7	4484.7	4382.2	3466.5
32.5°	6174.6	6183.5	6038.5	5708.0	5372.1	5207.7	5006.2	5025.6	4652.6	4576.6	3620.3
35°	6593.6	6583.0	6480.5	6206.5	5808.7	5610.7	5338.5	5227.1	5043.3	4923.1	3855.4
37.5°	7046.1	6959.5	6793.3	6484.0	6229.4	5955.4	5690.3	5439.3	5303.2	5158.2	4056.9
40°	7228.2	7228.2	7005.5	6864.1	6561.8	6354.9	6183.5	5718.6	5619.6	5591.3	4315.0
42.5°	7099.2	7178.7	7086.8	6925.9	6802.2	6540.6	6494.6	6008.5	6010.2	5953.7	4624.4
45°	7086.8	6977.2	6901.2	6941.8	6883.5	6869.4	6986.0	6409.7	6420.4	6413.3	5039.8
47.5°	6731.5	6682.0	6795.1	6862.3	6910.0	7129.2	7465.1	6888.8	6964.8	6911.8	5518.8
50°	6377.9	6369.1	6439.8	6683.7	6890.6	7251.2	7921.1	7627.7	7877.0	7873.4	6386.8
52.5°	5409.2	5502.9	5780.4	6296.6	6807.5	7417.3	8265.9	8571.7	9047.2	9176.2	7106.2
55°	4482.9	4433.4	4843.5	5593.1	6445.1	7482.8	8651.2	9139.1	9839.1	9932.8	7845.1
57.5°	3487.7	3579.6	3903.1	4622.6	5695.6	7159.3	8934.1	9699.5	10733.6	10806.1	8702.5
60°	2602.1	2614.5	2969.8	3549.6	4698.6	6429.2	9026.0	10274.0	11758.9	11965.7	9600.5
62.5°	1636.9	1711.2	1981.6	2552.6	3537.2	5407.5	8614.1	10622.2	12833.6	12888.4	10505.6
65°	882.1	929.8	1133.1	1492.0	2471.3	4090.5	7521.6	10413.6	13339.2	13664.5	10908.6
67°	652.3	661.1	754.8	952.8	1652.8	3079.4	6271.9	9658.8	13569.0	13805.9	10924.5
67.5°	611.6	624.0	698.2	855.6	1465.4	2835.4	5944.8	9390.1	13466.5	13721.0	10800.8
70°	523.2	526.8	544.5	588.7	822.0	1705.8	4048.1	7694.9	12481.9	12725.8	9932.8
72.5°	464.9	468.4	475.5	484.4	556.8	986.4	2462.4	5921.9	10848.5	11237.4	8569.9
75°	408.3	420.7	424.3	417.2	473.7	641.7	1309.9	4352.1	8849.2	9038.3	6664.3
77.5°	346.5	351.8	358.8	365.9	422.5	479.1	629.3	2937.9	6073.9	5959.0	3604.4
80°	291.7	293.4	298.7	304.0	365.9	365.9	357.1	1587.4	2653.3	2536.7	1218.0
82.5°	208.6	221.0	233.3	247.5	304.0	245.7	233.3	707.1	839.7	799.0	411.9
85°	81.3	99.0	153.8	169.7	192.7	132.6	155.6	305.8	350.0	346.5	153.8
87.5°	14.1	15.9	42.4	65.4	70.7	46.0	74.2	109.6	130.8	141.4	56.6
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°	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4	1587.4
2.5°	1601.6	1546.8	1481.3	1415.9	1373.5	1306.3	1301.0	1260.4	1255.1	1240.9	1248.0
5°	1613.9	1548.5	1415.9	1311.6	1263.9	1225.0	1233.9	1216.2	1210.9	1202.0	1187.9
7.5°	1711.2	1582.1	1384.1	1294.0	1258.6	1240.9	1240.9	1219.7	1203.8	1214.4	1225.0
10°	1774.8	1598.0	1408.9	1318.7	1290.4	1251.5	1265.7	1239.2	1248.0	1226.8	1226.8
12.5°	1877.3	1688.2	1460.1	1355.8	1309.9	1274.5	1288.7	1258.6	1251.5	1253.3	1248.0
15°	2015.2	1748.3	1483.1	1377.1	1345.2	1301.0	1290.4	1263.9	1237.4	1228.6	1239.2
17.5°	2144.2	1822.5	1499.0	1389.4	1338.2	1288.7	1276.3	1242.7	1233.9	1207.4	1186.1
20°	2298.0	1910.9	1520.2	1400.0	1311.6	1262.2	1230.3	1196.7	1166.7	1150.8	1157.9
22.5°	2400.6	1956.9	1530.8	1378.8	1272.8	1226.8	1159.6	1136.6	1094.2	1076.5	1062.4
25°	2568.5	2013.4	1504.3	1320.5	1203.8	1129.6	1069.5	1037.7	1007.6	984.6	977.5
27.5°	2610.9	2055.9	1442.5	1221.5	1094.2	1016.4	965.2	926.3	906.8	871.5	864.4
30°	2734.7	2013.4	1350.5	1101.3	989.9	910.4	859.1	830.8	784.9	776.0	756.6
32.5°	2814.2	2025.8	1233.9	984.6	869.7	799.0	765.4	737.1	724.8	682.3	671.7
35°	2946.8	1983.4	1115.4	876.8	770.7	715.9	687.6	678.8	638.1	618.7	601.0
37.5°	3031.6	1958.6	997.0	754.8	662.9	639.9	648.8	611.6	562.1	525.0	512.6
40°	3180.1	1949.8	862.6	654.1	588.7	583.3	611.6	540.9	450.8	418.9	401.3
42.5°	3394.0	1889.7	758.4	563.9	530.3	553.3	558.6	450.8	399.5	373.0	360.6
45°	3599.1	1902.1	655.8	466.7	461.4	495.0	482.6	381.8	351.8	332.3	342.9
47.5°	3993.3	1963.9	555.1	388.9	415.4	447.2	374.8	341.2	312.9	298.7	300.5
50°	4603.1	2024.0	466.7	355.3	392.4	404.8	321.7	309.4	307.6	279.3	277.5
52.5°	4969.1	2001.1	450.8	397.7	420.7	404.8	350.0	341.2	327.0	314.7	300.5
55°	5550.6	2068.2	484.4	464.9	477.3	388.9	392.4	388.9	378.3	346.5	355.3
57.5°	6013.8	2112.4	528.5	519.7	512.6	404.8	410.1	411.9	404.8	390.7	403.0
60°	6650.2	2200.8	574.5	576.3	578.0	440.2	449.0	459.6	457.8	452.5	456.1
62.5°	7040.8	2160.2	625.8	654.1	645.2	512.6	510.9	517.9	517.9	526.8	532.1
65°	6982.5	2009.9	652.3	723.0	677.0	565.7	565.7	569.2	571.0	588.7	590.4
67°	6632.5	1741.2	638.1	733.6	677.0	586.9	586.9	590.4	578.0	624.0	609.9
67.5°	6469.9	1661.7	625.8	724.8	671.7	585.1	585.1	586.9	576.3	620.5	606.3
70°	5626.6	1233.9	539.2	641.7	622.2	569.2	569.2	558.6	549.8	608.1	595.7
72.5°	4802.9	896.2	433.1	546.2	562.1	548.0	551.5	525.0	500.3	540.9	530.3
75°	3678.6	659.4	337.6	420.7	475.5	512.6	535.6	468.4	436.6	447.2	427.8
77.5°	2052.3	429.6	266.9	311.1	362.4	477.3	514.4	422.5	357.1	344.7	344.7
80°	696.5	251.0	196.2	231.6	249.2	422.5	480.8	342.9	281.1	268.7	259.9
82.5°	263.4	153.8	134.3	159.1	159.1	334.1	392.4	263.4	212.1	274.0	279.3
85°	120.2	91.9	88.4	91.9	91.9	205.1	277.5	171.5	190.9	164.4	145.0
87.5°	47.7	44.2	40.7	38.9	31.8	35.4	95.5	46.0	86.6	23.0	21.2
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)