

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: P477105

Luminaire Tested: **IFLD-S-SA3C-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477105
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

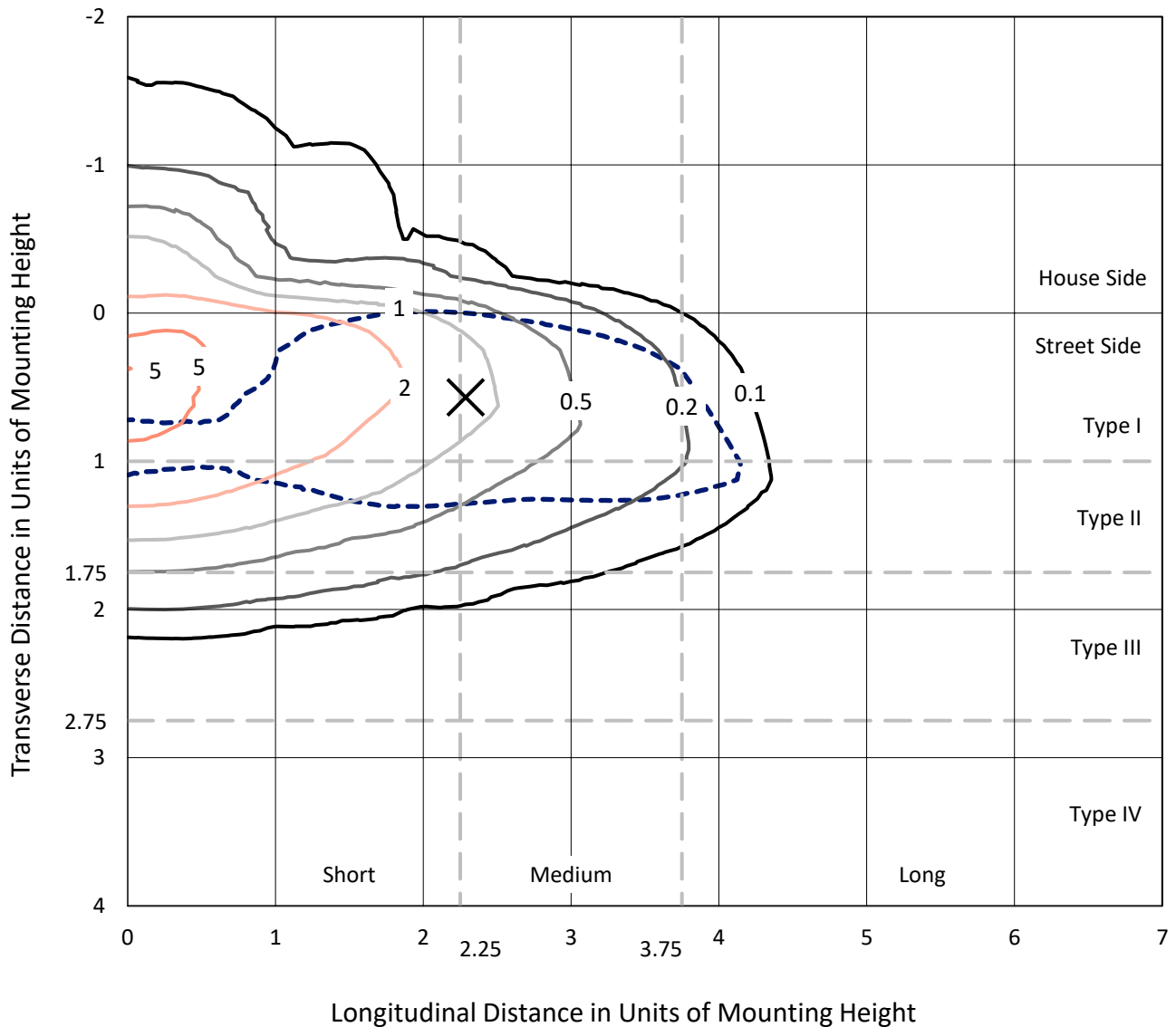
Lumens per Lamp: N/A
Luminaire Lumens: 15658.4 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 160.8
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

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Iso-Footcandle Lines of Horizontal Illumination

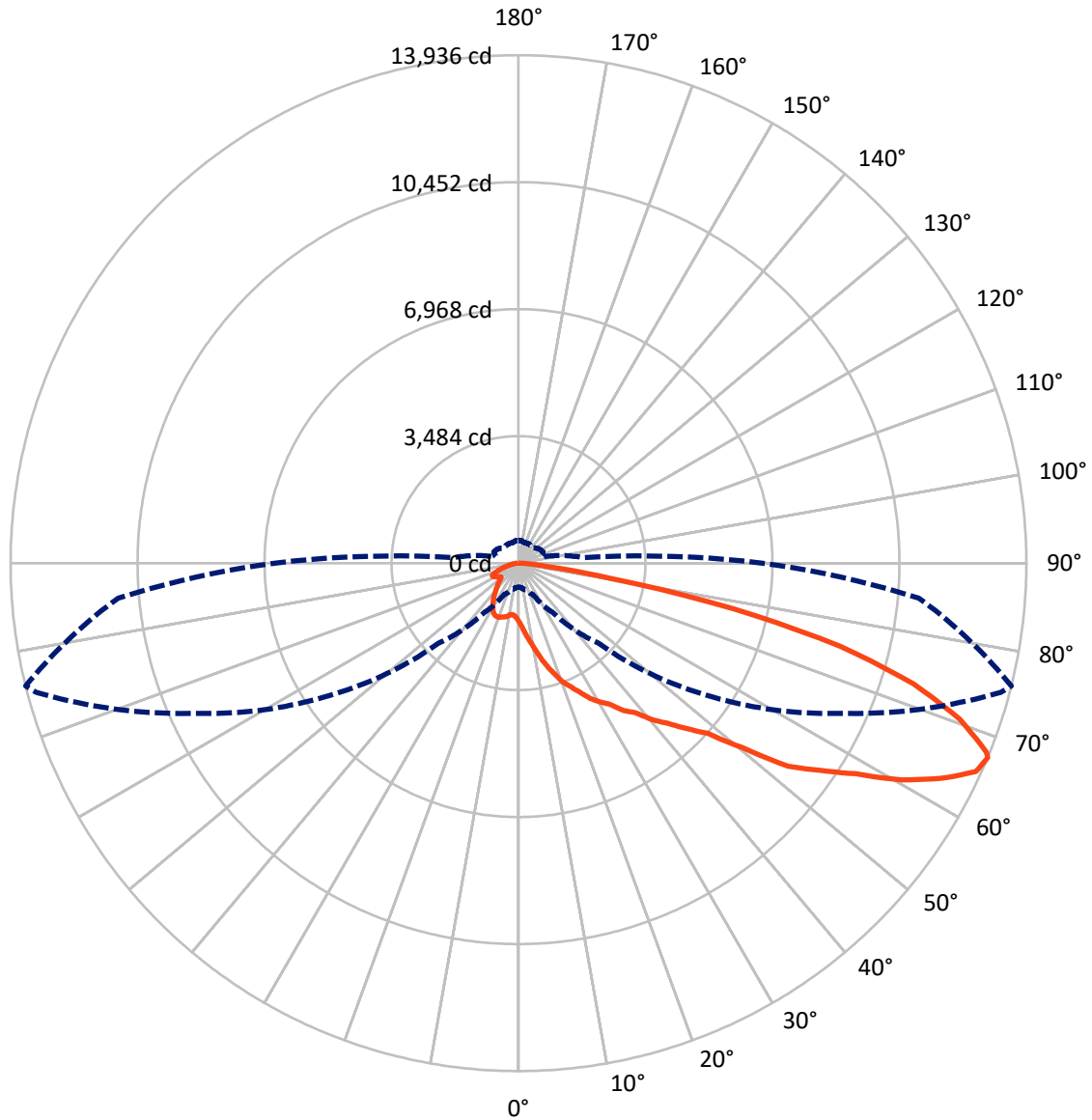
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	2227.6	0.0	2227.6
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	13430.8	0.0	13430.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	15658.4	0.0	15658.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.6	1.2
10°-20°	696.1	4.4
20°-30°	1294.2	8.3
30°-40°	2051.7	13.1
40°-50°	2837.6	18.1
50°-60°	3490.5	22.3
60°-70°	3248.0	20.7
70°-80°	1629.9	10.4
80°-90°	224.7	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°	15658.4	100.0
0°-180°	15658.4	100.0

Coefficient of Utilization

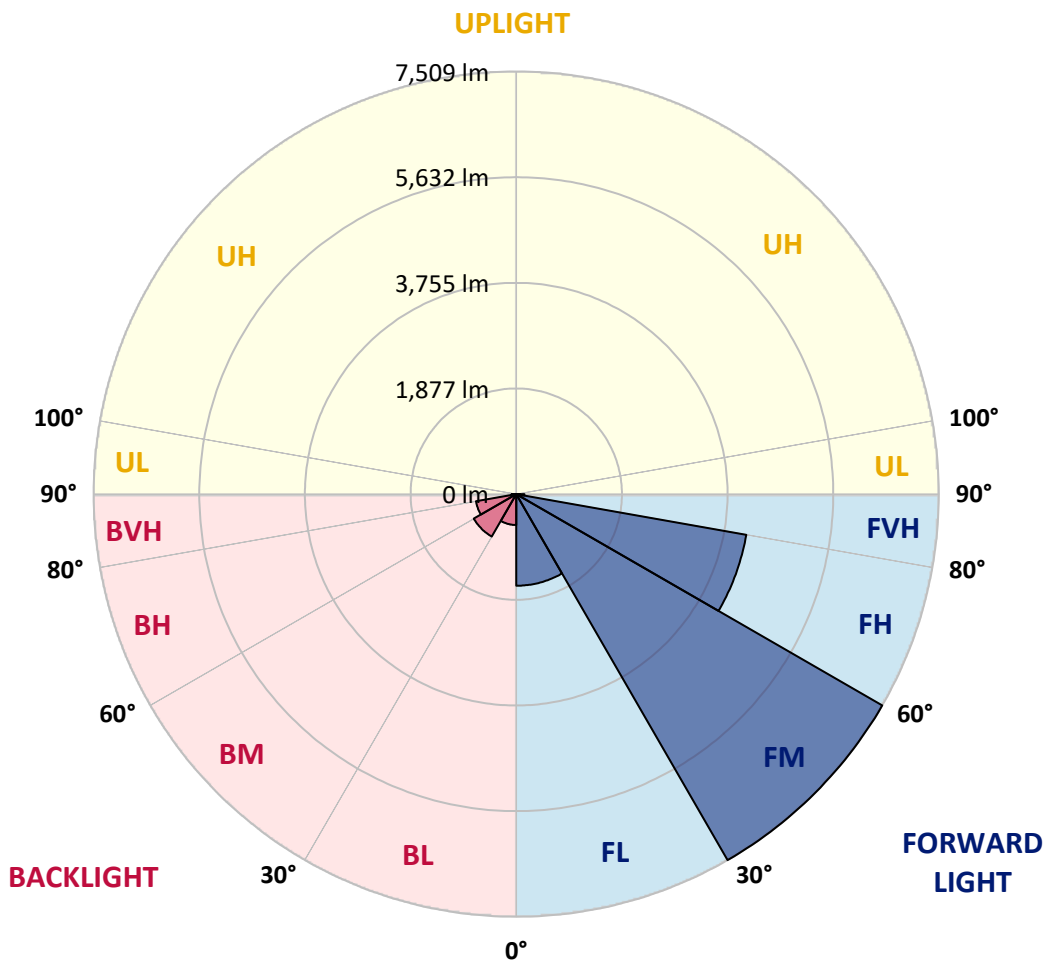


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1627.4	10.4			
FM (30°-60°)	7509.3	48.0			
FH (60°-80°)	4150.9	26.5			G2/5000
FVH (80°-90°)	143.2	0.9			G2/225
BL (0°-30°)	548.6	3.5	B2/1000		
BM (30°-60°)	870.5	5.6	B1/1000		
BH (60°-80°)	727.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	81.6	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°	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4
2.5°	2223.4	2196.6	2169.8	2112.7	2093.1	2039.6	1941.4	1832.6	1743.4	1730.9	1668.4
5°	2758.7	2719.4	2710.5	2678.4	2576.7	2473.2	2312.6	2137.7	1920.0	1936.1	1722.0
7.5°	3160.2	3137.0	3088.8	3058.5	2997.8	2860.4	2694.5	2462.5	2185.9	2132.4	1841.5
10°	3463.5	3431.4	3429.6	3402.9	3370.7	3229.8	3103.1	2790.8	2435.7	2362.6	1987.8
12.5°	3617.0	3611.6	3706.2	3706.2	3693.7	3634.8	3417.1	3131.6	2673.0	2648.1	2157.3
15°	3782.9	3738.3	3820.4	3882.9	3915.0	3945.3	3765.1	3463.5	2976.4	2928.2	2339.4
17.5°	3782.9	3779.4	3861.5	3964.9	4132.7	4171.9	4073.8	3768.7	3228.0	3192.3	2539.2
20°	3718.7	3770.4	3827.6	3966.7	4148.7	4307.6	4336.1	4080.9	3506.4	3477.8	2765.8
22.5°	4018.5	3968.5	4027.4	4080.9	4221.9	4462.8	4541.3	4355.7	3799.0	3690.2	2971.0
25°	4521.7	4487.8	4445.0	4366.4	4425.3	4530.6	4650.2	4559.2	4048.8	3927.5	3169.1
27.5°	5012.4	5014.2	4921.4	4750.1	4623.4	4644.8	4785.8	4737.6	4259.4	4205.8	3304.7
30°	5710.1	5667.3	5563.8	5331.8	5083.8	4880.3	4857.2	4903.5	4527.0	4423.5	3499.2
32.5°	6232.9	6241.9	6095.5	5761.8	5422.8	5256.9	5053.4	5073.1	4696.6	4619.8	3654.5
35°	6655.8	6645.1	6541.6	6265.0	5863.6	5663.7	5388.9	5276.5	5090.9	4969.6	3891.8
37.5°	7112.6	7025.2	6857.5	6545.2	6288.2	6011.7	5744.0	5490.6	5353.2	5206.9	4095.2
40°	7296.4	7296.4	7071.6	6928.8	6623.7	6414.9	6241.9	5772.6	5672.6	5644.1	4355.7
42.5°	7166.2	7246.5	7153.7	6991.3	6866.4	6602.3	6555.9	6065.2	6067.0	6009.9	4668.0
45°	7153.7	7043.0	6966.3	7007.4	6948.5	6934.2	7052.0	6470.3	6481.0	6473.8	5087.3
47.5°	6795.0	6745.1	6859.3	6927.1	6975.2	7196.5	7535.5	6953.8	7030.6	6977.0	5570.9
50°	6438.1	6429.2	6500.6	6746.8	6955.6	7319.6	7995.9	7699.7	7951.3	7947.7	6447.1
52.5°	5460.3	5554.9	5835.0	6356.1	6871.7	7487.4	8343.9	8652.6	9132.6	9262.8	7173.3
55°	4525.3	4475.3	4889.3	5645.9	6505.9	7553.4	8732.9	9225.4	9932.0	10026.6	7919.2
57.5°	3520.6	3613.4	3940.0	4666.2	5749.4	7226.8	9018.4	9791.0	10834.9	10908.1	8784.6
60°	2626.6	2639.1	2997.8	3583.1	4743.0	6489.9	9111.2	10371.0	11869.9	12078.6	9691.1
62.5°	1652.4	1727.3	2000.3	2576.7	3570.6	5458.5	8695.4	10722.5	12954.8	13010.1	10604.7
65°	890.4	938.6	1143.8	1506.0	2494.6	4129.1	7592.6	10511.9	13465.1	13793.5	11011.6
67°	658.4	667.4	761.9	961.8	1668.4	3108.4	6331.1	9750.0	13697.1	13936.2	11027.6
67.5°	617.4	629.9	704.8	863.7	1479.3	2862.2	6001.0	9478.8	13593.6	13850.6	10902.7
70°	528.2	531.8	549.6	594.2	829.7	1722.0	4086.3	7767.5	12599.7	12845.9	10026.6
72.5°	469.3	472.9	480.0	488.9	562.1	995.7	2485.7	5977.8	10950.9	11343.5	8650.8
75°	412.2	424.7	428.3	421.1	478.2	647.7	1322.2	4393.2	8932.7	9123.7	6727.2
77.5°	349.7	355.1	362.2	369.4	426.5	483.6	635.2	2965.7	6131.2	6015.2	3638.4
80°	294.4	296.2	301.6	306.9	369.4	369.4	360.4	1602.4	2678.4	2560.6	1229.5
82.5°	210.6	223.1	235.5	249.8	306.9	248.0	235.5	713.8	847.6	806.6	415.8
85°	82.1	99.9	155.2	171.3	194.5	133.8	157.0	308.7	353.3	349.7	155.2
87.5°	14.3	16.1	42.8	66.0	71.4	46.4	74.9	110.6	132.0	142.8	57.1
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°	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4	1602.4
2.5°	1616.7	1561.4	1495.3	1429.3	1386.5	1318.7	1313.3	1272.3	1266.9	1252.7	1259.8
5°	1629.2	1563.1	1429.3	1324.0	1275.9	1236.6	1245.5	1227.7	1222.3	1213.4	1199.1
7.5°	1727.3	1597.0	1397.2	1306.2	1270.5	1252.7	1252.7	1231.2	1215.2	1225.9	1236.6
10°	1791.5	1613.1	1422.2	1331.2	1302.6	1263.4	1277.6	1250.9	1259.8	1238.4	1238.4
12.5°	1895.0	1704.1	1473.9	1368.6	1322.2	1286.6	1300.8	1270.5	1263.4	1265.1	1259.8
15°	2034.2	1764.8	1497.1	1390.1	1357.9	1313.3	1302.6	1275.9	1249.1	1240.2	1250.9
17.5°	2164.5	1839.7	1513.2	1402.5	1350.8	1300.8	1288.3	1254.4	1245.5	1218.7	1197.3
20°	2319.7	1928.9	1534.6	1413.2	1324.0	1274.1	1241.9	1208.0	1177.7	1161.6	1168.8
22.5°	2423.2	1975.3	1545.3	1391.8	1284.8	1238.4	1170.6	1147.4	1104.5	1086.7	1072.4
25°	2592.7	2032.4	1518.5	1333.0	1215.2	1140.2	1079.6	1047.4	1017.1	993.9	986.8
27.5°	2635.6	2075.3	1456.1	1233.0	1104.5	1026.0	974.3	935.0	915.4	879.7	872.6
30°	2760.5	2032.4	1363.3	1111.7	999.3	919.0	867.2	838.7	792.3	783.4	763.7
32.5°	2840.8	2044.9	1245.5	993.9	877.9	806.6	772.6	744.1	731.6	688.8	678.1
35°	2974.6	2002.1	1126.0	885.1	778.0	722.7	694.1	685.2	644.2	624.5	606.7
37.5°	3060.3	1977.1	1006.4	761.9	669.2	646.0	654.9	617.4	567.4	530.0	517.5
40°	3210.1	1968.2	870.8	660.2	594.2	588.9	617.4	546.0	455.0	422.9	405.1
42.5°	3426.1	1907.5	765.5	569.2	535.3	558.5	563.9	455.0	403.3	376.5	364.0
45°	3633.0	1920.0	662.0	471.1	465.7	499.6	487.1	385.4	355.1	335.5	346.2
47.5°	4031.0	1982.5	560.3	392.6	419.3	451.5	378.3	344.4	315.8	301.6	303.3
50°	4646.6	2043.1	471.1	358.7	396.1	408.6	324.8	312.3	310.5	281.9	280.2
52.5°	5016.0	2019.9	455.0	401.5	424.7	408.6	353.3	344.4	330.1	317.6	303.3
55°	5603.0	2087.8	488.9	469.3	481.8	392.6	396.1	392.6	381.9	349.7	358.7
57.5°	6070.5	2132.4	533.5	524.6	517.5	408.6	414.0	415.8	408.6	394.4	406.8
60°	6712.9	2221.6	579.9	581.7	583.5	444.3	453.2	463.9	462.2	456.8	460.4
62.5°	7107.3	2180.5	631.7	660.2	651.3	517.5	515.7	522.8	522.8	531.8	537.1
65°	7048.4	2028.9	658.4	729.8	683.4	571.0	571.0	574.6	576.4	594.2	596.0
67°	6695.1	1757.6	644.2	740.5	683.4	592.4	592.4	596.0	583.5	629.9	615.6
67.5°	6530.9	1677.3	631.7	731.6	678.1	590.6	590.6	592.4	581.7	626.3	612.1
70°	5679.8	1245.5	544.2	647.7	628.1	574.6	574.6	563.9	555.0	613.8	601.3
72.5°	4848.2	904.7	437.2	551.4	567.4	553.2	556.7	530.0	505.0	546.0	535.3
75°	3713.3	665.6	340.8	424.7	480.0	517.5	540.7	472.9	440.7	451.5	431.8
77.5°	2071.7	433.6	269.4	314.1	365.8	481.8	519.3	426.5	360.4	348.0	348.0
80°	703.1	253.4	198.1	233.8	251.6	426.5	485.4	346.2	283.7	271.2	262.3
82.5°	265.9	155.2	135.6	160.6	160.6	337.3	396.1	265.9	214.1	276.6	281.9
85°	121.3	92.8	89.2	92.8	92.8	207.0	280.2	173.1	192.7	165.9	146.3
87.5°	48.2	44.6	41.0	39.3	32.1	35.7	96.4	46.4	87.4	23.2	21.4
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)