

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: P476833

Luminaire Tested: **IFLD-S-SA3D-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

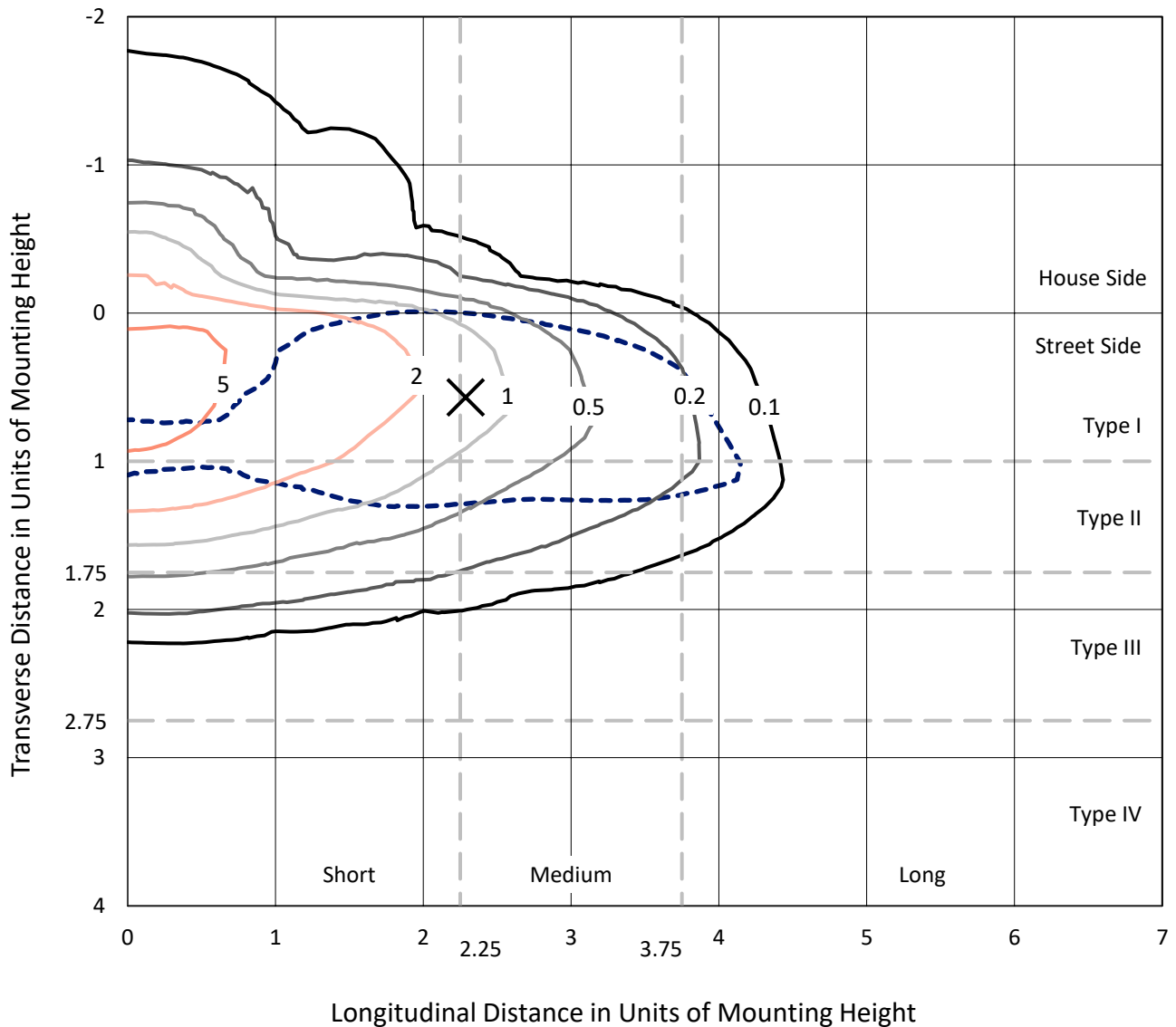
Lumens per Lamp: N/A
Luminaire Lumens: 17264.4 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

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Iso-Footcandle Lines of Horizontal Illumination

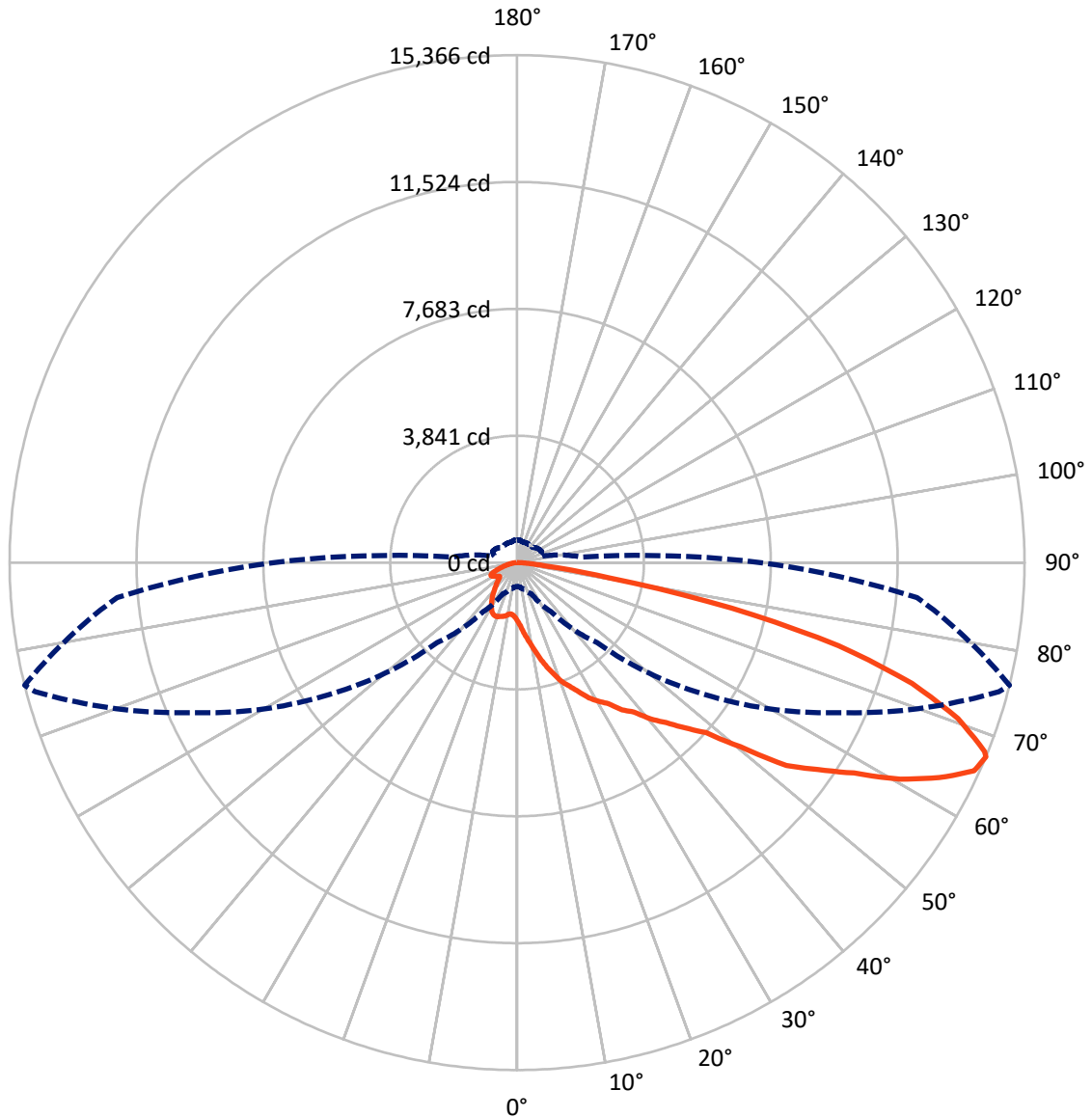
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	2456.1	0.0	2456.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14808.4	0.0	14808.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	17264.4	0.0	17264.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.7	1.2
10°-20°	767.6	4.4
20°-30°	1427.0	8.3
30°-40°	2262.1	13.1
40°-50°	3128.7	18.1
50°-60°	3848.5	22.3
60°-70°	3581.2	20.7
70°-80°	1797.0	10.4
80°-90°	247.8	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°	17264.4	100.0
0°-180°	17264.4	100.0

Coefficient of Utilization



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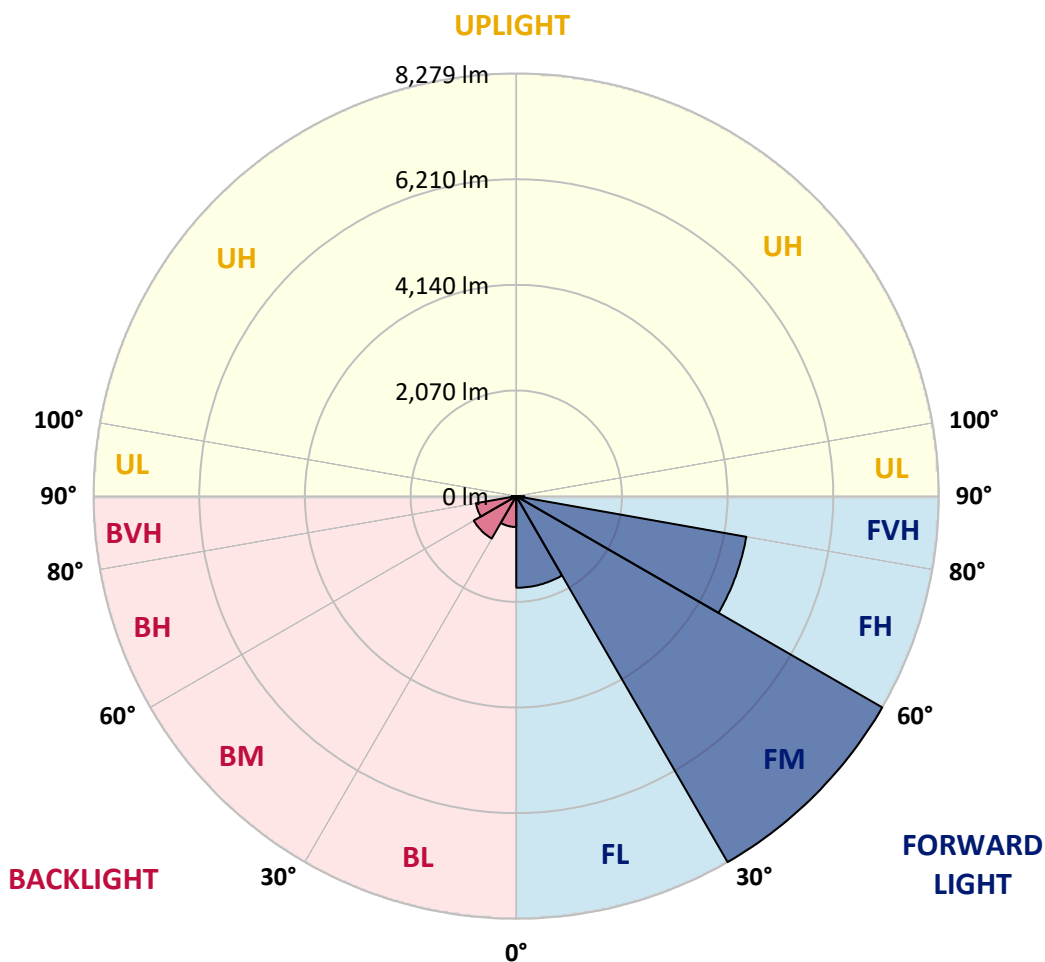
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1794.4	10.4			
FM (30°-60°)	8279.5	48.0			
FH (60°-80°)	4576.7	26.5			G2/5000
FVH (80°-90°)	157.9	0.9			G2/225
BL (0°-30°)	604.8	3.5	B2/1000		
BM (30°-60°)	959.8	5.6	B1/1000		
BH (60°-80°)	801.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	89.9	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°	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8
2.5°	2451.4	2421.9	2392.4	2329.4	2307.8	2248.8	2140.6	2020.5	1922.2	1908.4	1839.5
5°	3041.6	2998.4	2988.5	2953.1	2841.0	2726.9	2549.8	2357.0	2117.0	2134.7	1898.6
7.5°	3484.3	3458.7	3405.6	3372.2	3305.3	3153.8	2970.8	2715.1	2410.1	2351.1	2030.4
10°	3818.8	3783.4	3781.4	3751.9	3716.5	3561.0	3421.4	3077.1	2685.5	2604.9	2191.7
12.5°	3988.0	3982.1	4086.3	4086.3	4072.6	4007.7	3767.6	3452.8	2947.2	2919.7	2378.6
15°	4170.9	4121.8	4212.3	4281.1	4316.5	4350.0	4151.3	3818.8	3281.7	3228.5	2579.3
17.5°	4170.9	4167.0	4257.5	4371.6	4556.6	4599.8	4491.6	4155.2	3559.1	3519.7	2799.7
20°	4100.1	4157.2	4220.1	4373.6	4574.3	4749.4	4780.9	4499.5	3866.0	3834.5	3049.5
22.5°	4430.6	4375.6	4440.5	4499.5	4654.9	4920.5	5007.1	4802.5	4188.7	4068.6	3275.8
25°	4985.5	4948.1	4900.9	4814.3	4879.2	4995.3	5127.1	5026.8	4464.1	4330.3	3494.2
27.5°	5526.5	5528.5	5426.2	5237.3	5097.6	5121.2	5276.6	5223.5	4696.3	4637.2	3643.7
30°	6295.8	6248.6	6134.4	5878.7	5605.2	5380.9	5355.3	5406.5	4991.4	4877.3	3858.1
32.5°	6872.2	6882.1	6720.7	6352.8	5979.0	5796.0	5571.8	5593.4	5178.3	5093.7	4029.3
35°	7338.5	7326.7	7212.6	6907.6	6465.0	6244.6	5941.6	5817.7	5613.1	5479.3	4291.0
37.5°	7842.2	7745.8	7560.8	7216.5	6933.2	6628.3	6333.2	6053.8	5902.3	5741.0	4515.2
40°	8044.8	8044.8	7796.9	7639.5	7303.1	7072.9	6882.1	6364.6	6254.5	6223.0	4802.5
42.5°	7901.2	7989.7	7887.4	7708.4	7570.7	7279.5	7228.3	6687.3	6689.3	6626.3	5146.8
45°	7887.4	7765.4	7680.8	7726.1	7661.2	7645.4	7775.3	7133.9	7145.7	7137.8	5609.1
47.5°	7492.0	7436.9	7562.8	7637.6	7690.7	7934.6	8308.4	7667.1	7751.7	7692.6	6142.3
50°	7098.5	7088.6	7167.3	7438.8	7669.0	8070.4	8816.0	8489.5	8766.9	8762.9	7108.3
52.5°	6020.3	6124.6	6433.5	7008.0	7576.6	8255.3	9199.7	9540.1	10069.3	10212.9	7909.1
55°	4989.4	4934.3	5390.8	6224.9	7173.2	8328.1	9628.6	10171.6	10950.7	11055.0	8731.4
57.5°	3881.7	3984.0	4344.1	5144.8	6339.1	7968.1	9943.4	10795.3	11946.2	12026.9	9685.6
60°	2896.1	2909.8	3305.3	3950.6	5229.4	7155.5	10045.7	11434.7	13087.3	13317.5	10685.1
62.5°	1821.8	1904.5	2205.5	2841.0	3936.8	6018.4	9587.3	11822.3	14283.5	14344.5	11692.4
65°	981.7	1034.9	1261.1	1660.5	2750.5	4552.6	8371.4	11590.1	14846.2	15208.2	12141.0
67°	726.0	735.8	840.1	1060.4	1839.5	3427.3	6980.4	10750.0	15102.0	15365.6	12158.7
67.5°	680.7	694.5	777.1	952.2	1631.0	3155.8	6616.5	10451.0	14987.9	15271.2	12021.0
70°	582.4	586.3	606.0	655.2	914.9	1898.6	4505.4	8564.2	13892.0	14163.5	11055.0
72.5°	517.4	521.4	529.2	539.1	619.7	1097.8	2740.6	6590.9	12074.1	12506.9	9538.1
75°	454.5	468.2	472.2	464.3	527.3	714.2	1457.9	4843.8	9848.9	10059.5	7417.2
77.5°	385.6	391.5	399.4	407.3	470.2	533.2	700.4	3269.9	6760.1	6632.2	4011.6
80°	324.6	326.6	332.5	338.4	407.3	407.3	397.4	1766.8	2953.1	2823.3	1355.6
82.5°	232.2	245.9	259.7	275.4	338.4	273.5	259.7	787.0	934.5	889.3	458.4
85°	90.5	110.2	171.2	188.9	214.4	147.6	173.1	340.4	389.6	385.6	171.2
87.5°	15.7	17.7	47.2	72.8	78.7	51.2	82.6	122.0	145.6	157.4	63.0
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°	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8	1766.8
2.5°	1782.5	1721.5	1648.7	1575.9	1528.7	1453.9	1448.0	1402.8	1396.9	1381.1	1389.0
5°	1796.3	1723.5	1575.9	1459.8	1406.7	1363.4	1373.3	1353.6	1347.7	1337.9	1322.1
7.5°	1904.5	1760.8	1540.5	1440.2	1400.8	1381.1	1381.1	1357.5	1339.8	1351.6	1363.4
10°	1975.3	1778.6	1568.0	1467.7	1436.2	1392.9	1408.7	1379.2	1389.0	1365.4	1365.4
12.5°	2089.4	1878.9	1625.1	1509.0	1457.9	1418.5	1434.3	1400.8	1392.9	1394.9	1389.0
15°	2242.9	1945.8	1650.7	1532.6	1497.2	1448.0	1436.2	1406.7	1377.2	1367.4	1379.2
17.5°	2386.5	2028.4	1668.4	1546.4	1489.3	1434.3	1420.5	1383.1	1373.3	1343.8	1320.1
20°	2557.7	2126.8	1692.0	1558.2	1459.8	1404.7	1369.3	1331.9	1298.5	1280.8	1288.7
22.5°	2671.8	2177.9	1703.8	1534.6	1416.5	1365.4	1290.6	1265.1	1217.8	1198.2	1182.4
25°	2858.7	2240.9	1674.3	1469.7	1339.8	1257.2	1190.3	1154.9	1121.4	1095.9	1088.0
27.5°	2905.9	2288.1	1605.4	1359.5	1217.8	1131.3	1074.2	1030.9	1009.3	969.9	962.1
30°	3043.6	2240.9	1503.1	1225.7	1101.8	1013.2	956.2	924.7	873.5	863.7	842.1
32.5°	3132.1	2254.7	1373.3	1095.9	968.0	889.3	851.9	820.4	806.6	759.4	747.6
35°	3279.7	2207.5	1241.4	975.8	857.8	796.8	765.3	755.5	710.2	688.6	668.9
37.5°	3374.1	2179.9	1109.6	840.1	737.8	712.2	722.0	680.7	625.6	584.3	570.6
40°	3539.4	2170.1	960.1	727.9	655.2	649.3	680.7	602.0	501.7	466.3	446.6
42.5°	3777.5	2103.2	844.0	627.6	590.2	615.8	621.7	501.7	444.6	415.1	401.4
45°	4005.7	2117.0	729.9	519.4	513.5	550.9	537.1	425.0	391.5	369.9	381.7
47.5°	4444.4	2185.8	617.8	432.8	462.3	497.8	417.1	379.7	348.2	332.5	334.5
50°	5123.2	2252.7	519.4	395.5	436.8	450.5	358.1	344.3	342.3	310.9	308.9
52.5°	5530.4	2227.1	501.7	442.7	468.2	450.5	389.6	379.7	364.0	350.2	334.5
55°	6177.7	2301.9	539.1	517.4	531.2	432.8	436.8	432.8	421.0	385.6	395.5
57.5°	6693.2	2351.1	588.3	578.4	570.6	450.5	456.4	458.4	450.5	434.8	448.6
60°	7401.5	2449.4	639.4	641.4	643.3	489.9	499.7	511.5	509.6	503.7	507.6
62.5°	7836.3	2404.2	696.5	727.9	718.1	570.6	568.6	576.5	576.5	586.3	592.2
65°	7771.3	2237.0	726.0	804.7	753.5	629.6	629.6	633.5	635.5	655.2	657.1
67°	7381.8	1937.9	710.2	816.5	753.5	653.2	653.2	657.1	643.3	694.5	678.8
67.5°	7200.8	1849.4	696.5	806.6	747.6	651.2	651.2	653.2	641.4	690.6	674.8
70°	6262.3	1373.3	600.1	714.2	692.5	633.5	633.5	621.7	611.9	676.8	663.0
72.5°	5345.5	997.5	482.0	607.9	625.6	609.9	613.8	584.3	556.8	602.0	590.2
75°	4094.2	733.9	375.8	468.2	529.2	570.6	596.1	521.4	486.0	497.8	476.1
77.5°	2284.2	478.1	297.1	346.3	403.3	531.2	572.5	470.2	397.4	383.6	383.6
80°	775.2	279.4	218.4	257.7	277.4	470.2	535.1	381.7	312.8	299.0	289.2
82.5°	293.1	171.2	149.5	177.1	177.1	371.8	436.8	293.1	236.1	305.0	310.9
85°	133.8	102.3	98.4	102.3	102.3	228.2	308.9	190.8	212.5	183.0	161.3
87.5°	53.1	49.2	45.3	43.3	35.4	39.3	106.2	51.2	96.4	25.6	23.6
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)