

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: P477118

Luminaire Tested: **IFLD-S-SA6A-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477118
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

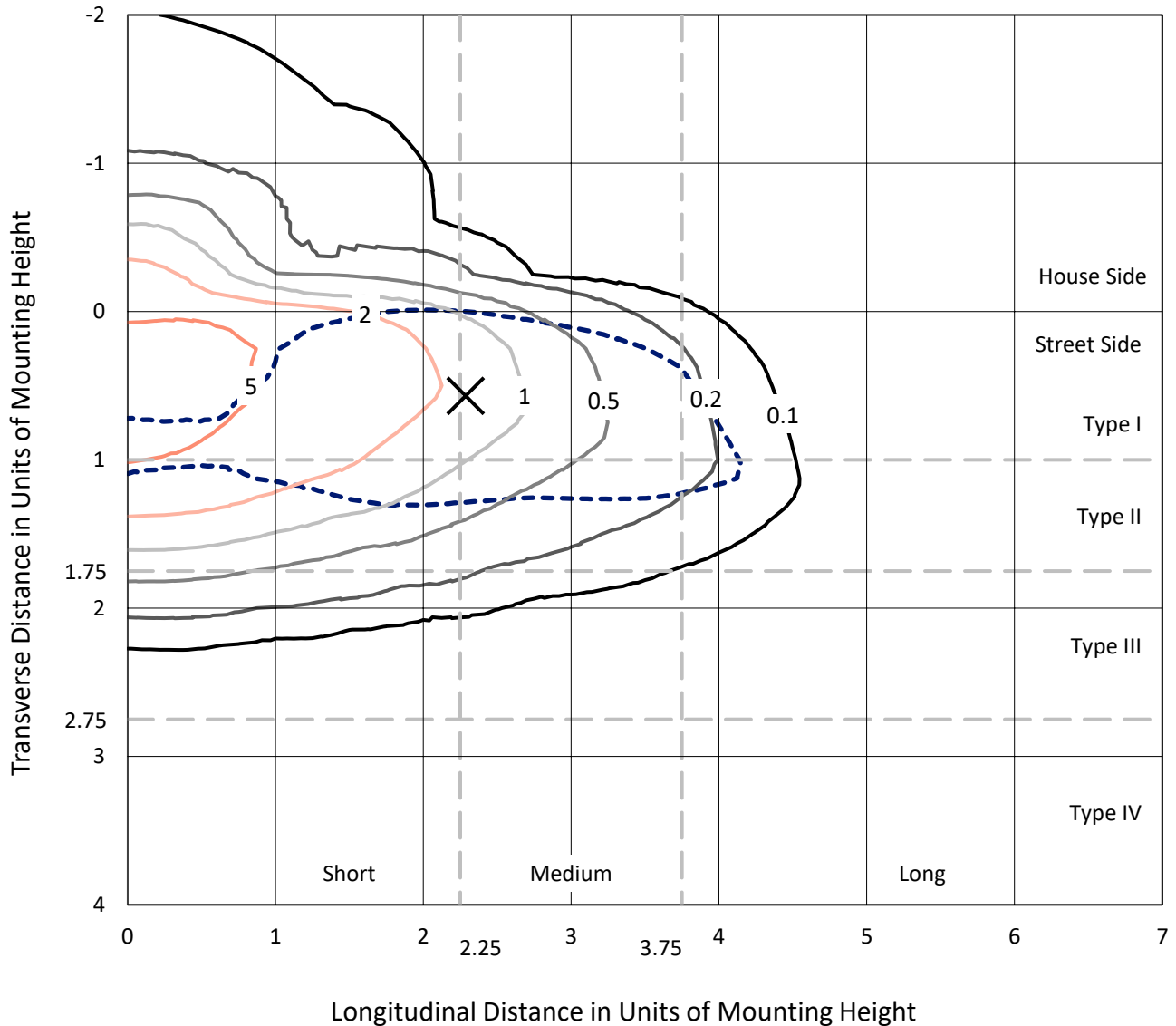
Lumens per Lamp: N/A
Luminaire Lumens: 19951.8 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
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

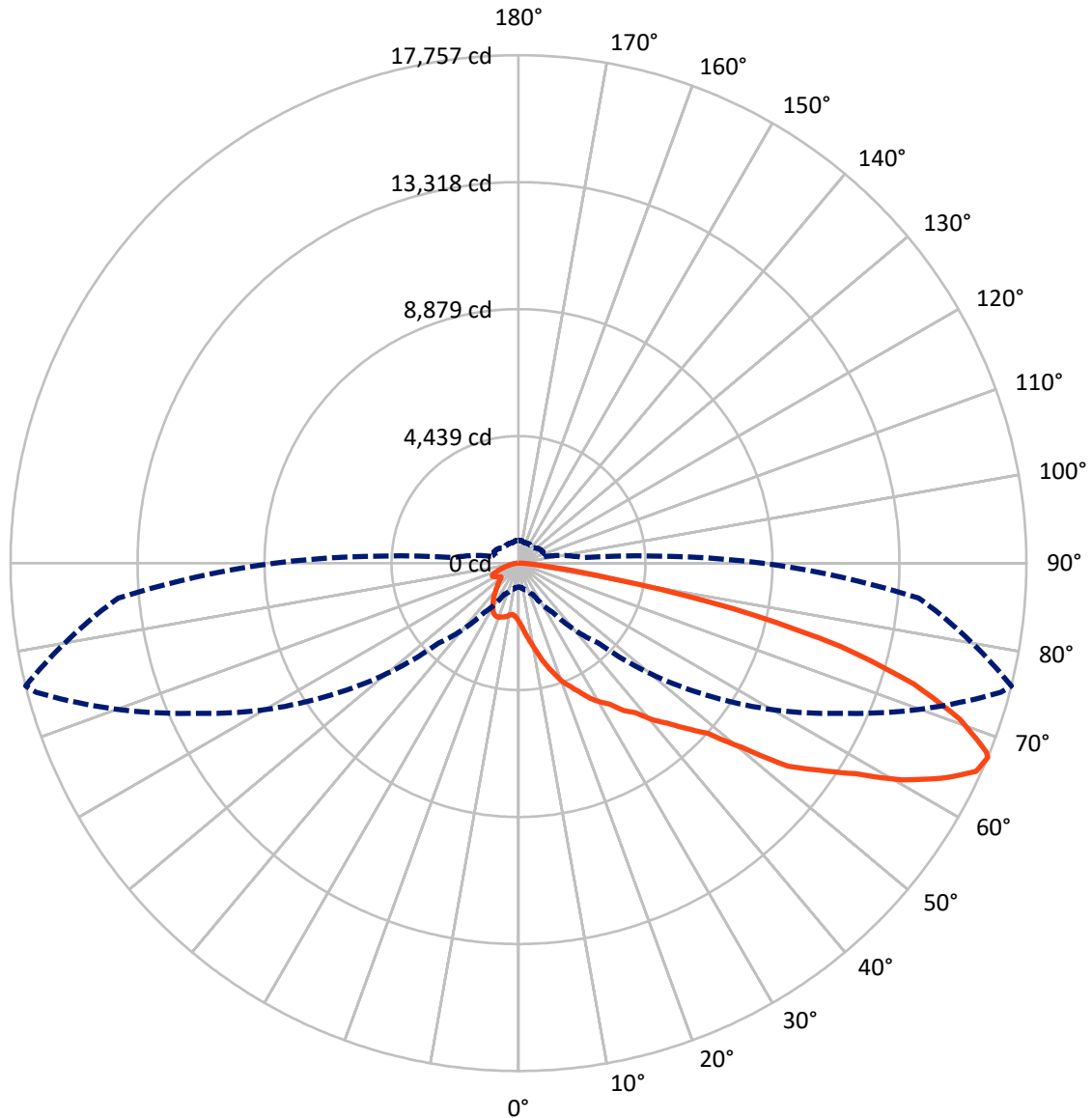
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	2838.4	0.0	2838.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17113.4	0.0	17113.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	19951.8	0.0	19951.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	1.2
10°-20°	887.0	4.4
20°-30°	1649.1	8.3
30°-40°	2614.2	13.1
40°-50°	3615.7	18.1
50°-60°	4447.5	22.3
60°-70°	4138.6	20.7
70°-80°	2076.7	10.4
80°-90°	286.4	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°	19951.8	100.0
0°-180°	19951.8	100.0

Coefficient of Utilization



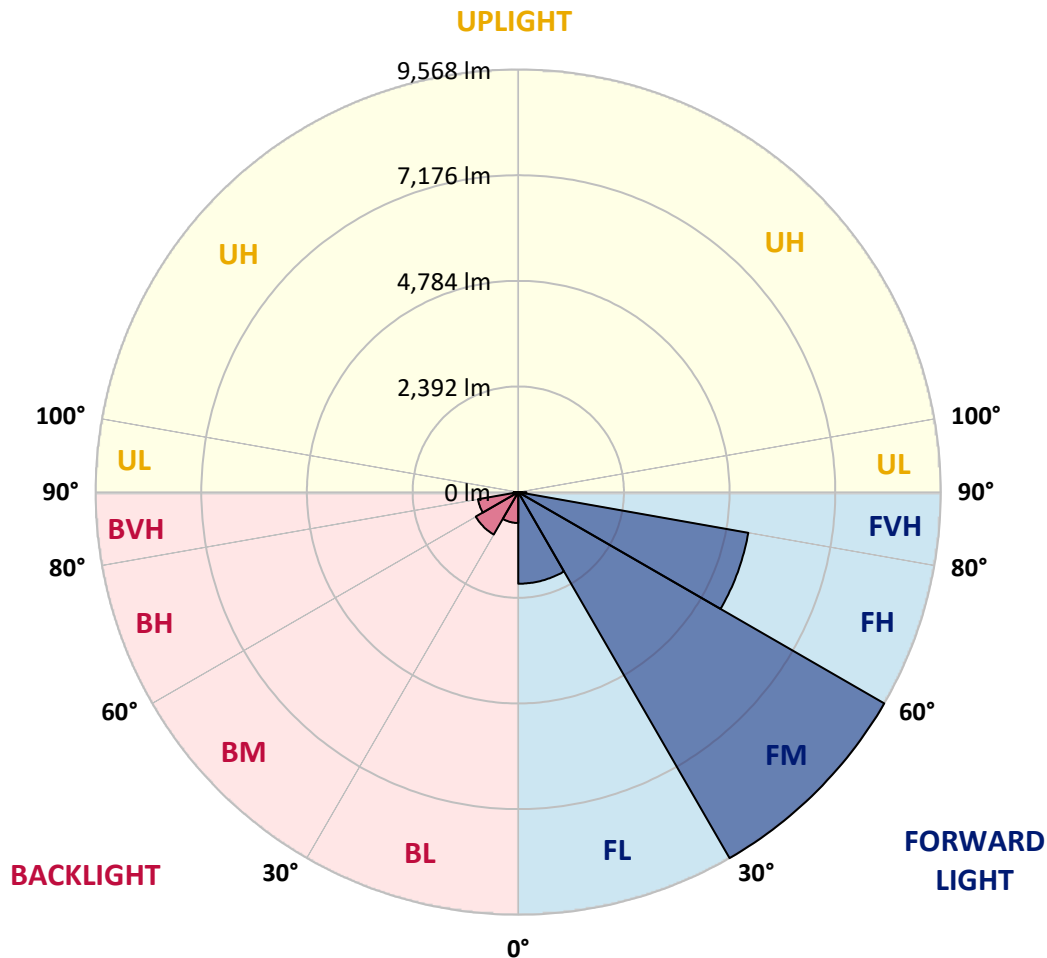
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2073.7	10.4			
FM (30°-60°)	9568.2	48.0			
FH (60°-80°)	5289.1	26.5			G3/7500
FVH (80°-90°)	182.4	0.9			G2/225
BL (0°-30°)	699.0	3.5	B2/1000		
BM (30°-60°)	1109.2	5.6	B2/2500		
BH (60°-80°)	926.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	103.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8
2.5°	2833.0	2798.9	2764.8	2692.0	2667.0	2598.8	2473.8	2335.1	2221.4	2205.5	2125.9
5°	3515.1	3465.1	3453.7	3412.8	3283.2	3151.3	2946.7	2723.9	2446.5	2466.9	2194.1
7.5°	4026.7	3997.1	3935.7	3897.1	3819.8	3644.7	3433.3	3137.7	2785.3	2717.0	2346.4
10°	4413.2	4372.3	4370.0	4335.9	4295.0	4115.4	3953.9	3556.0	3103.6	3010.3	2532.9
12.5°	4608.7	4601.9	4722.4	4722.4	4706.5	4631.5	4354.1	3990.3	3406.0	3374.1	2748.9
15°	4820.2	4763.4	4867.9	4947.5	4988.4	5027.1	4797.5	4413.2	3792.5	3731.1	2980.8
17.5°	4820.2	4815.7	4920.2	5052.1	5265.8	5315.9	5190.8	4802.0	4113.1	4067.6	3235.4
20°	4738.3	4804.3	4877.0	5054.4	5286.3	5488.7	5525.0	5199.9	4467.8	4431.4	3524.2
22.5°	5120.3	5056.7	5131.7	5199.9	5379.5	5686.5	5786.5	5550.0	4840.7	4702.0	3785.7
25°	5761.5	5718.3	5663.7	5563.7	5638.7	5772.9	5925.2	5809.2	5159.0	5004.4	4038.1
27.5°	6386.8	6389.0	6270.8	6052.5	5891.1	5918.4	6098.0	6036.6	5427.3	5359.1	4210.9
30°	7275.8	7221.2	7089.3	6793.8	6477.7	6218.5	6189.0	6248.1	5768.3	5636.4	4458.7
32.5°	7942.0	7953.3	7766.9	7341.7	6909.7	6698.3	6439.1	6464.1	5984.3	5886.6	4656.5
35°	8480.8	8467.2	8335.3	7982.9	7471.3	7216.7	6866.5	6723.3	6486.8	6332.2	4958.9
37.5°	9062.9	8951.5	8737.7	8339.9	8012.4	7660.0	7319.0	6996.1	6821.0	6634.6	5218.1
40°	9297.1	9297.1	9010.6	8828.7	8439.9	8173.9	7953.3	7355.3	7228.0	7191.6	5550.0
42.5°	9131.1	9233.4	9115.2	8908.3	8749.1	8412.6	8353.5	7728.2	7730.5	7657.7	5947.9
45°	9115.2	8974.2	8876.4	8928.7	8853.7	8835.5	8985.6	8244.4	8258.0	8248.9	6482.3
47.5°	8658.2	8594.5	8740.0	8826.4	8887.8	9169.7	9601.7	8860.5	8958.3	8890.1	7098.4
50°	8203.4	8192.1	8283.0	8596.8	8862.8	9326.6	10188.4	9810.9	10131.5	10127.0	8214.8
52.5°	6957.5	7078.0	7434.9	8098.8	8755.9	9540.4	10631.7	11025.1	11636.7	11802.7	9140.2
55°	5766.0	5702.4	6229.9	7193.9	8289.8	9624.5	11127.4	11754.9	12655.3	12775.8	10090.6
57.5°	4486.0	4604.2	5020.3	5945.7	7325.8	9208.4	11491.2	12475.7	13805.8	13899.0	11193.3
60°	3346.9	3362.8	3819.8	4565.5	6043.4	8269.4	11609.4	13214.6	15124.5	15390.5	12348.3
62.5°	2105.4	2200.9	2548.8	3283.2	4549.6	6955.2	11079.6	13662.5	16506.9	16577.4	13512.5
65°	1134.6	1196.0	1457.4	1919.0	3178.6	5261.3	9674.5	13394.2	17157.2	17575.5	14030.9
67°	839.0	850.4	970.9	1225.5	2125.9	3960.7	8067.0	12423.4	17452.8	17757.4	14051.3
67.5°	786.7	802.6	898.1	1100.5	1884.9	3647.0	7646.4	12077.8	17320.9	17648.3	13892.2
70°	673.0	677.6	700.3	757.1	1057.3	2194.1	5206.7	9897.3	16054.4	16368.2	12775.8
72.5°	598.0	602.5	611.6	623.0	716.2	1268.7	3167.2	7616.8	13953.6	14453.8	11022.8
75°	525.2	541.1	545.7	536.6	609.3	825.3	1684.8	5597.8	11382.0	11625.3	8571.8
77.5°	445.6	452.5	461.6	470.7	543.4	616.2	809.4	3778.9	7812.4	7664.6	4636.0
80°	375.2	377.4	384.3	391.1	470.7	470.7	459.3	2041.8	3412.8	3262.7	1566.6
82.5°	268.3	284.2	300.1	318.3	391.1	316.0	300.1	909.5	1080.0	1027.7	529.8
85°	104.6	127.3	197.8	218.3	247.8	170.5	200.1	393.3	450.2	445.6	197.8
87.5°	18.2	20.5	54.6	84.1	90.9	59.1	95.5	141.0	168.3	181.9	72.8
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°	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8	2041.8
2.5°	2060.0	1989.5	1905.3	1821.2	1766.6	1680.2	1673.4	1621.1	1614.3	1596.1	1605.2
5°	2075.9	1991.7	1821.2	1687.1	1625.7	1575.7	1587.0	1564.3	1557.5	1546.1	1527.9
7.5°	2200.9	2034.9	1780.3	1664.3	1618.9	1596.1	1596.1	1568.8	1548.4	1562.0	1575.7
10°	2282.8	2055.4	1812.1	1696.2	1659.8	1609.8	1628.0	1593.8	1605.2	1577.9	1577.9
12.5°	2414.6	2171.4	1878.1	1743.9	1684.8	1639.3	1657.5	1618.9	1609.8	1612.0	1605.2
15°	2592.0	2248.7	1907.6	1771.2	1730.3	1673.4	1659.8	1625.7	1591.6	1580.2	1593.8
17.5°	2758.0	2344.2	1928.1	1787.1	1721.2	1657.5	1641.6	1598.4	1587.0	1552.9	1525.6
20°	2955.8	2457.8	1955.4	1800.8	1687.1	1623.4	1582.5	1539.3	1500.6	1480.2	1489.3
22.5°	3087.7	2517.0	1969.0	1773.5	1637.0	1577.9	1491.5	1462.0	1407.4	1384.7	1366.5
25°	3303.7	2589.7	1934.9	1698.4	1548.4	1452.9	1375.6	1334.6	1296.0	1266.4	1257.3
27.5°	3358.2	2644.3	1855.3	1571.1	1407.4	1307.4	1241.4	1191.4	1166.4	1120.9	1111.8
30°	3517.4	2589.7	1737.1	1416.5	1273.3	1170.9	1105.0	1068.6	1009.5	998.1	973.1
32.5°	3619.7	2605.6	1587.0	1266.4	1118.6	1027.7	984.5	948.1	932.2	877.6	864.0
35°	3790.2	2551.1	1434.7	1127.7	991.3	920.8	884.5	873.1	820.8	795.8	773.1
37.5°	3899.4	2519.2	1282.4	970.9	852.6	823.1	834.4	786.7	723.0	675.3	659.4
40°	4090.3	2507.9	1109.6	841.3	757.1	750.3	786.7	695.7	579.8	538.9	516.1
42.5°	4365.5	2430.6	975.4	725.3	682.1	711.7	718.5	579.8	513.9	479.7	463.8
45°	4629.2	2446.5	843.5	600.3	593.4	636.6	620.7	491.1	452.5	427.5	441.1
47.5°	5136.2	2526.1	713.9	500.2	534.3	575.2	482.0	438.8	402.4	384.3	386.5
50°	5920.7	2603.4	600.3	457.0	504.8	520.7	413.8	397.9	395.6	359.2	357.0
52.5°	6391.3	2573.8	579.8	511.6	541.1	520.7	450.2	438.8	420.6	404.7	386.5
55°	7139.3	2660.2	623.0	598.0	613.9	500.2	504.8	500.2	486.6	445.6	457.0
57.5°	7735.1	2717.0	679.8	668.5	659.4	520.7	527.5	529.8	520.7	502.5	518.4
60°	8553.6	2830.7	738.9	741.2	743.5	566.1	577.5	591.2	588.9	582.1	586.6
62.5°	9056.1	2778.4	804.9	841.3	829.9	659.4	657.1	666.2	666.2	677.6	684.4
65°	8981.0	2585.2	839.0	929.9	870.8	727.6	727.6	732.1	734.4	757.1	759.4
67°	8530.8	2239.6	820.8	943.6	870.8	754.9	754.9	759.4	743.5	802.6	784.4
67.5°	8321.7	2137.3	804.9	932.2	864.0	752.6	752.6	754.9	741.2	798.1	779.9
70°	7237.1	1587.0	693.5	825.3	800.3	732.1	732.1	718.5	707.1	782.1	766.2
72.5°	6177.6	1152.8	557.1	702.6	723.0	704.8	709.4	675.3	643.5	695.7	682.1
75°	4731.5	848.1	434.3	541.1	611.6	659.4	688.9	602.5	561.6	575.2	550.2
77.5°	2639.7	552.5	343.3	400.2	466.1	613.9	661.6	543.4	459.3	443.4	443.4
80°	895.8	322.9	252.4	297.9	320.6	543.4	618.4	441.1	361.5	345.6	334.2
82.5°	338.8	197.8	172.8	204.6	204.6	429.7	504.8	338.8	272.8	352.4	359.2
85°	154.6	118.2	113.7	118.2	118.2	263.7	357.0	220.5	245.6	211.5	186.4
87.5°	61.4	56.8	52.3	50.0	40.9	45.5	122.8	59.1	111.4	29.6	27.3
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)