

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: P476907

Luminaire Tested: **IFLD-S-SA2E-730-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476907
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-730-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

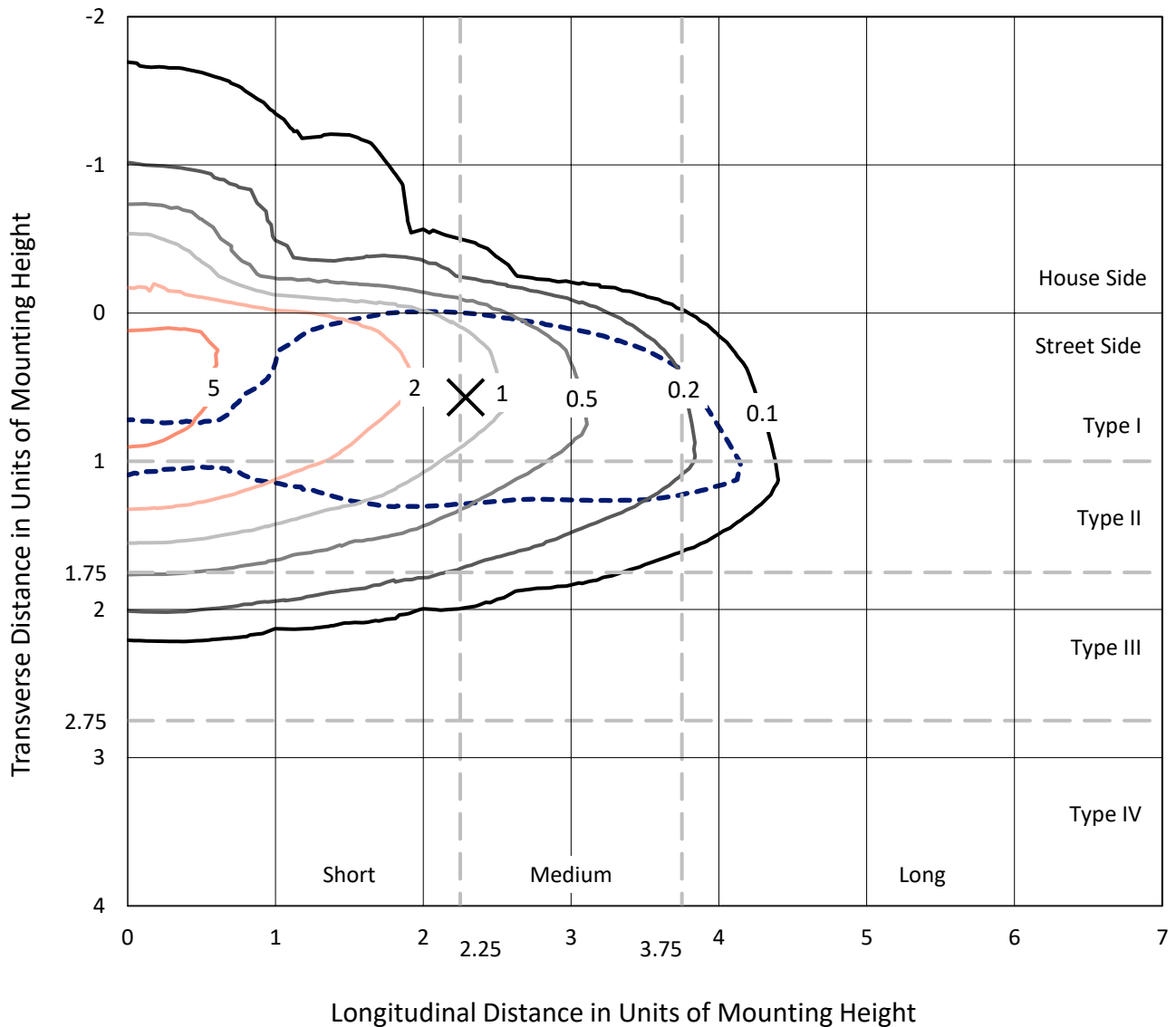
Lumens per Lamp: N/A
Luminaire Lumens: 16573.9 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
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

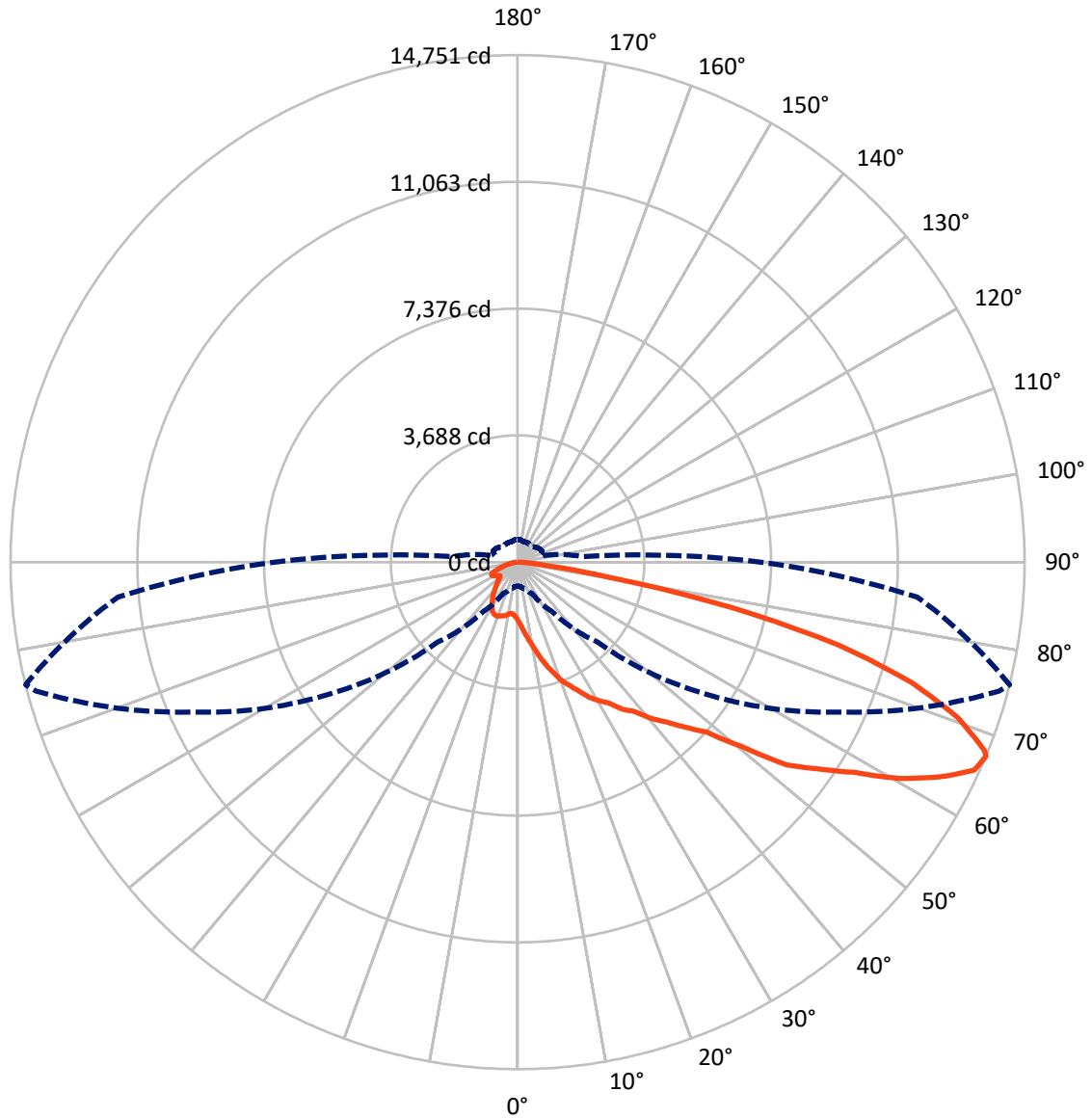
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2357.8	0.0	2357.8
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	14216.1	0.0	14216.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	16573.9	0.0	16573.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	1.2
10°-20°	736.9	4.4
20°-30°	1369.9	8.3
30°-40°	2171.6	13.1
40°-50°	3003.5	18.1
50°-60°	3694.5	22.3
60°-70°	3437.9	20.7
70°-80°	1725.1	10.4
80°-90°	237.9	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°	16573.9	100.0
0°-180°	16573.9	100.0

Coefficient of Utilization



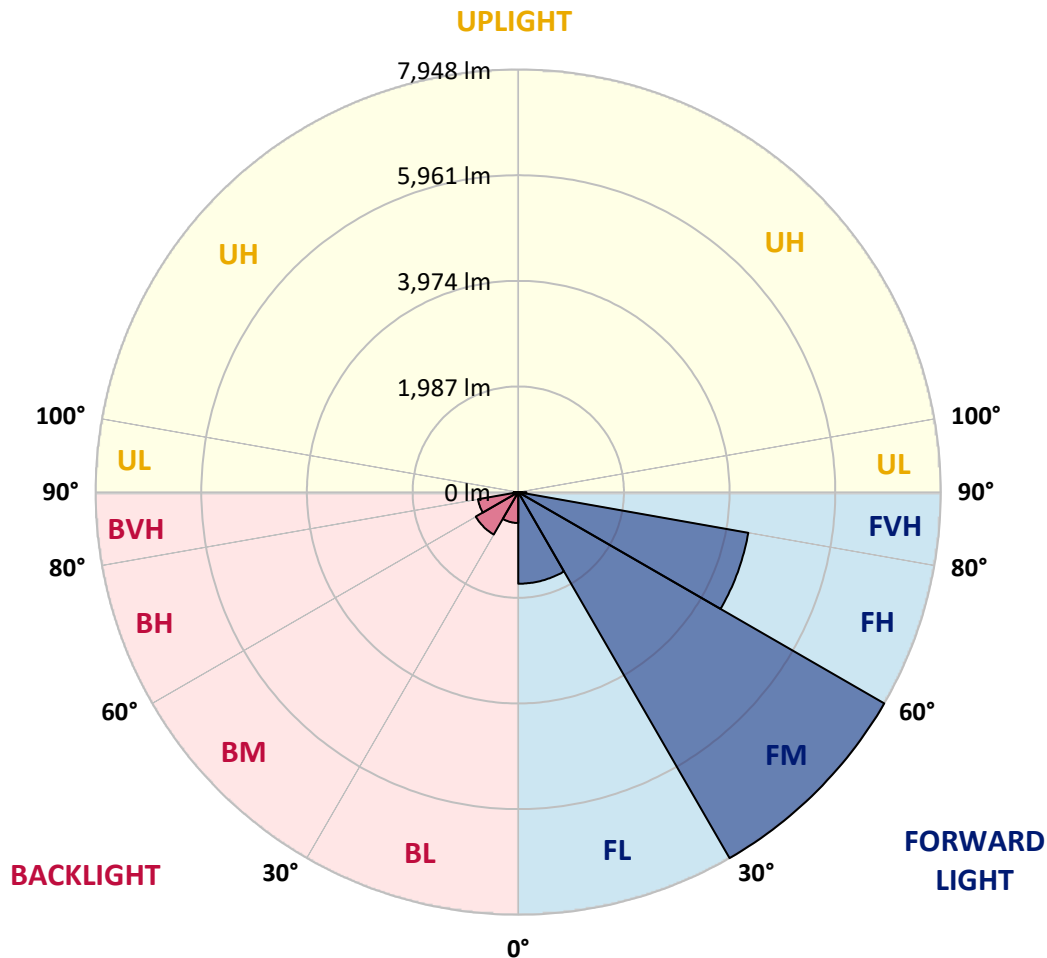
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1722.6	10.4			
FM (30°-60°)	7948.3	48.0			
FH (60°-80°)	4393.6	26.5			G2/5000
FVH (80°-90°)	151.6	0.9			G2/225
BL (0°-30°)	580.6	3.5	B2/1000		
BM (30°-60°)	921.4	5.6	B1/1000		
BH (60°-80°)	769.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	86.3	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°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	2353.4	2325.0	2296.7	2236.3	2215.5	2158.8	2054.9	1939.7	1845.3	1832.1	1766.0
5°	2920.0	2878.4	2869.0	2835.0	2727.3	2617.8	2447.8	2262.7	2032.3	2049.3	1822.6
7.5°	3345.0	3320.4	3269.4	3237.3	3173.1	3027.6	2852.0	2606.5	2313.7	2257.0	1949.2
10°	3666.0	3632.0	3630.2	3601.8	3567.8	3418.6	3284.5	2954.0	2578.1	2500.7	2104.1
12.5°	3828.5	3822.8	3922.9	3922.9	3909.7	3847.4	3616.9	3314.7	2829.3	2802.9	2283.5
15°	4004.1	3956.9	4043.8	4109.9	4143.9	4176.0	3985.2	3666.0	3150.4	3099.4	2476.1
17.5°	4004.1	4000.3	4087.2	4196.8	4374.3	4415.9	4312.0	3989.0	3416.7	3379.0	2687.7
20°	3936.1	3990.9	4051.3	4198.7	4391.3	4559.4	4589.6	4319.5	3711.4	3681.1	2927.5
22.5°	4253.4	4200.6	4262.9	4319.5	4468.8	4723.7	4806.8	4610.4	4021.1	3905.9	3144.7
25°	4786.1	4750.2	4704.8	4621.7	4684.1	4795.5	4922.1	4825.7	4285.5	4157.1	3354.4
27.5°	5305.5	5307.4	5209.1	5027.8	4893.7	4916.4	5065.6	5014.6	4508.4	4451.8	3497.9
30°	6044.0	5998.6	5889.1	5643.5	5381.0	5165.7	5141.1	5190.3	4791.7	4682.2	3703.8
32.5°	6597.4	6606.8	6451.9	6098.7	5739.9	5564.2	5348.9	5369.7	4971.2	4889.9	3868.1
35°	7045.0	7033.7	6924.1	6631.4	6206.4	5994.9	5704.0	5585.0	5388.6	5260.1	4119.3
37.5°	7528.5	7436.0	7258.4	6927.9	6655.9	6363.2	6079.8	5811.6	5666.2	5511.3	4334.7
40°	7723.0	7723.0	7485.1	7334.0	7011.0	6790.0	6606.8	6110.1	6004.3	5974.1	4610.4
42.5°	7585.2	7670.2	7571.9	7400.1	7267.9	6988.3	6939.2	6419.8	6421.7	6361.3	4940.9
45°	7571.9	7454.8	7373.6	7417.1	7354.7	7339.6	7464.3	6848.6	6859.9	6852.3	5384.8
47.5°	7192.3	7139.4	7260.3	7332.1	7383.1	7617.3	7976.1	7360.4	7441.6	7385.0	5896.6
50°	6814.6	6805.1	6880.7	7141.3	7362.3	7747.6	8463.4	8149.9	8416.2	8412.4	6824.0
52.5°	5779.5	5879.6	6176.2	6727.7	7273.5	7925.1	8831.7	9158.5	9666.6	9804.4	7592.7
55°	4789.8	4737.0	5175.1	5976.0	6886.3	7995.0	9243.5	9764.8	10512.7	10612.8	8382.2
57.5°	3726.5	3824.7	4170.3	4939.0	6085.5	7649.4	9545.7	10363.5	11468.4	11545.9	9298.3
60°	2780.2	2793.4	3173.1	3792.6	5020.3	6869.3	9643.9	10977.3	12563.9	12784.9	10257.7
62.5°	1749.0	1828.3	2117.3	2727.3	3779.4	5777.6	9203.8	11349.4	13712.2	13770.8	11224.8
65°	942.5	993.5	1210.7	1594.1	2640.5	4370.5	8036.6	11126.6	14252.4	14599.9	11655.4
67°	696.9	706.4	806.5	1018.0	1766.0	3290.2	6701.2	10320.1	14498.0	14751.0	11672.4
67.5°	653.5	666.7	746.1	914.1	1565.8	3029.5	6351.8	10033.0	14388.4	14660.4	11540.2
70°	559.1	562.8	581.7	628.9	878.3	1822.6	4325.2	8221.7	13336.4	13597.0	10612.8
72.5°	496.7	500.5	508.1	517.5	595.0	1053.9	2631.0	6327.3	11591.2	12006.7	9156.6
75°	436.3	449.5	453.3	445.7	506.2	685.6	1399.6	4650.1	9455.0	9657.1	7120.5
77.5°	370.2	375.9	383.4	391.0	451.4	511.8	672.4	3139.1	6489.7	6366.9	3851.1
80°	311.6	313.5	319.2	324.9	391.0	391.0	381.5	1696.1	2835.0	2710.3	1301.3
82.5°	222.9	236.1	249.3	264.4	324.9	262.5	249.3	755.5	897.2	853.7	440.1
85°	86.9	105.8	164.3	181.3	205.9	141.7	166.2	326.8	374.0	370.2	164.3
87.5°	15.1	17.0	45.3	69.9	75.5	49.1	79.3	117.1	139.8	151.1	60.4
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°	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1	1696.1
2.5°	1711.2	1652.6	1582.8	1512.9	1467.5	1395.8	1390.1	1346.7	1341.0	1325.9	1333.4
5°	1724.4	1654.5	1512.9	1401.4	1350.4	1308.9	1318.3	1299.5	1293.8	1284.3	1269.2
7.5°	1828.3	1690.4	1478.9	1382.6	1344.8	1325.9	1325.9	1303.2	1286.2	1297.6	1308.9
10°	1896.3	1707.4	1505.3	1409.0	1378.8	1337.2	1352.3	1324.0	1333.4	1310.8	1310.8
12.5°	2005.8	1803.7	1560.1	1448.7	1399.6	1361.8	1376.9	1344.8	1337.2	1339.1	1333.4
15°	2153.2	1868.0	1584.7	1471.3	1437.3	1390.1	1378.8	1350.4	1322.1	1312.7	1324.0
17.5°	2291.0	1947.3	1601.6	1484.5	1429.8	1376.9	1363.7	1327.8	1318.3	1290.0	1267.3
20°	2455.4	2041.7	1624.3	1495.9	1401.4	1348.6	1314.6	1278.7	1246.6	1229.6	1237.1
22.5°	2564.9	2090.8	1635.6	1473.2	1359.9	1310.8	1239.0	1214.5	1169.1	1150.2	1135.1
25°	2744.3	2151.3	1607.3	1410.9	1286.2	1206.9	1142.7	1108.7	1076.6	1052.0	1044.5
27.5°	2789.7	2196.6	1541.2	1305.1	1169.1	1086.0	1031.3	989.7	968.9	931.1	923.6
30°	2921.9	2151.3	1443.0	1176.7	1057.7	972.7	917.9	887.7	838.6	829.2	808.4
32.5°	3006.9	2164.5	1318.3	1052.0	929.3	853.7	817.8	787.6	774.4	729.1	717.7
35°	3148.5	2119.2	1191.8	936.8	823.5	764.9	734.7	725.3	681.8	661.1	642.2
37.5°	3239.2	2092.7	1065.2	806.5	708.3	683.7	693.2	653.5	600.6	561.0	547.7
40°	3397.8	2083.3	921.7	698.8	628.9	623.3	653.5	578.0	481.6	447.6	428.7
42.5°	3626.4	2019.1	810.3	602.5	566.6	591.2	596.8	481.6	426.9	398.5	385.3
45°	3845.5	2032.3	700.7	498.6	493.0	528.8	515.6	408.0	375.9	355.1	366.4
47.5°	4266.7	2098.4	593.1	415.5	443.9	477.9	400.4	364.5	334.3	319.2	321.1
50°	4918.3	2162.6	498.6	379.6	419.3	432.5	343.8	330.5	328.6	298.4	296.5
52.5°	5309.2	2138.1	481.6	425.0	449.5	432.5	374.0	364.5	349.4	336.2	321.1
55°	5930.6	2209.8	517.5	496.7	510.0	415.5	419.3	415.5	404.2	370.2	379.6
57.5°	6425.5	2257.0	564.7	555.3	547.7	432.5	438.2	440.1	432.5	417.4	430.6
60°	7105.4	2351.5	613.8	615.7	617.6	470.3	479.7	491.1	489.2	483.5	487.3
62.5°	7522.8	2308.0	668.6	698.8	689.4	547.7	545.8	553.4	553.4	562.8	568.5
65°	7460.5	2147.5	696.9	772.5	723.4	604.4	604.4	608.2	610.1	628.9	630.8
67°	7086.5	1860.4	681.8	783.8	723.4	627.1	627.1	630.8	617.6	666.7	651.6
67.5°	6912.8	1775.4	668.6	774.4	717.7	625.2	625.2	627.1	615.7	662.9	647.8
70°	6011.9	1318.3	576.1	685.6	664.8	608.2	608.2	596.8	587.4	649.7	636.5
72.5°	5131.7	957.6	462.7	583.6	600.6	585.5	589.3	561.0	534.5	578.0	566.6
75°	3930.5	704.5	360.7	449.5	508.1	547.7	572.3	500.5	466.5	477.9	457.1
77.5°	2192.8	459.0	285.2	332.4	387.2	510.0	549.6	451.4	381.5	368.3	368.3
80°	744.2	268.2	209.6	247.4	266.3	451.4	513.7	366.4	300.3	287.1	277.6
82.5°	281.4	164.3	143.5	170.0	170.0	357.0	419.3	281.4	226.6	292.8	298.4
85°	128.4	98.2	94.4	98.2	98.2	219.1	296.5	183.2	204.0	175.7	154.9
87.5°	51.0	47.2	43.4	41.6	34.0	37.8	102.0	49.1	92.5	24.6	22.7
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)