

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: P476829

Luminaire Tested: **IFLD-S-SA2E-722-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476829
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-722-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

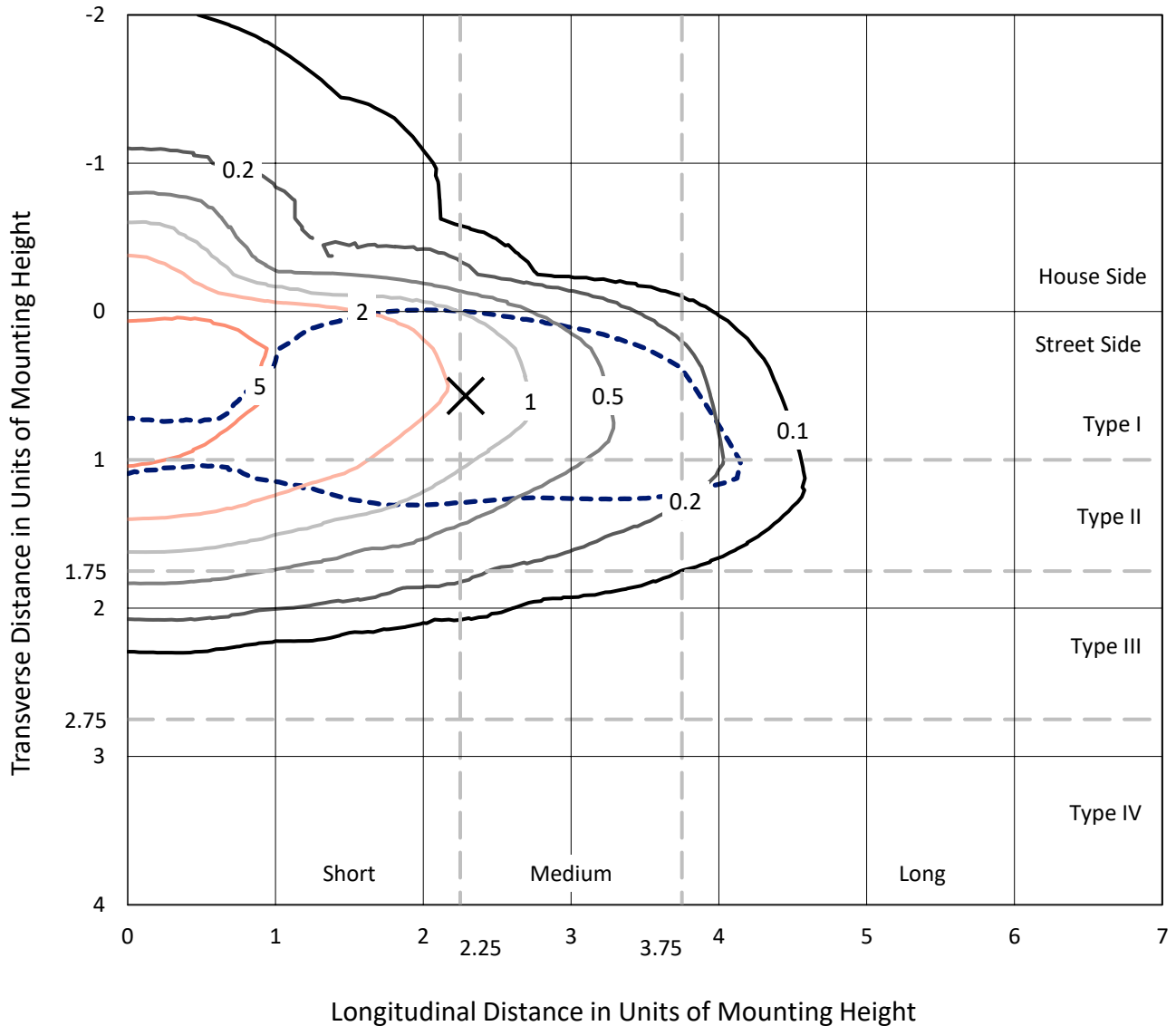
Lumens per Lamp: N/A
Luminaire Lumens: 13406.9 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

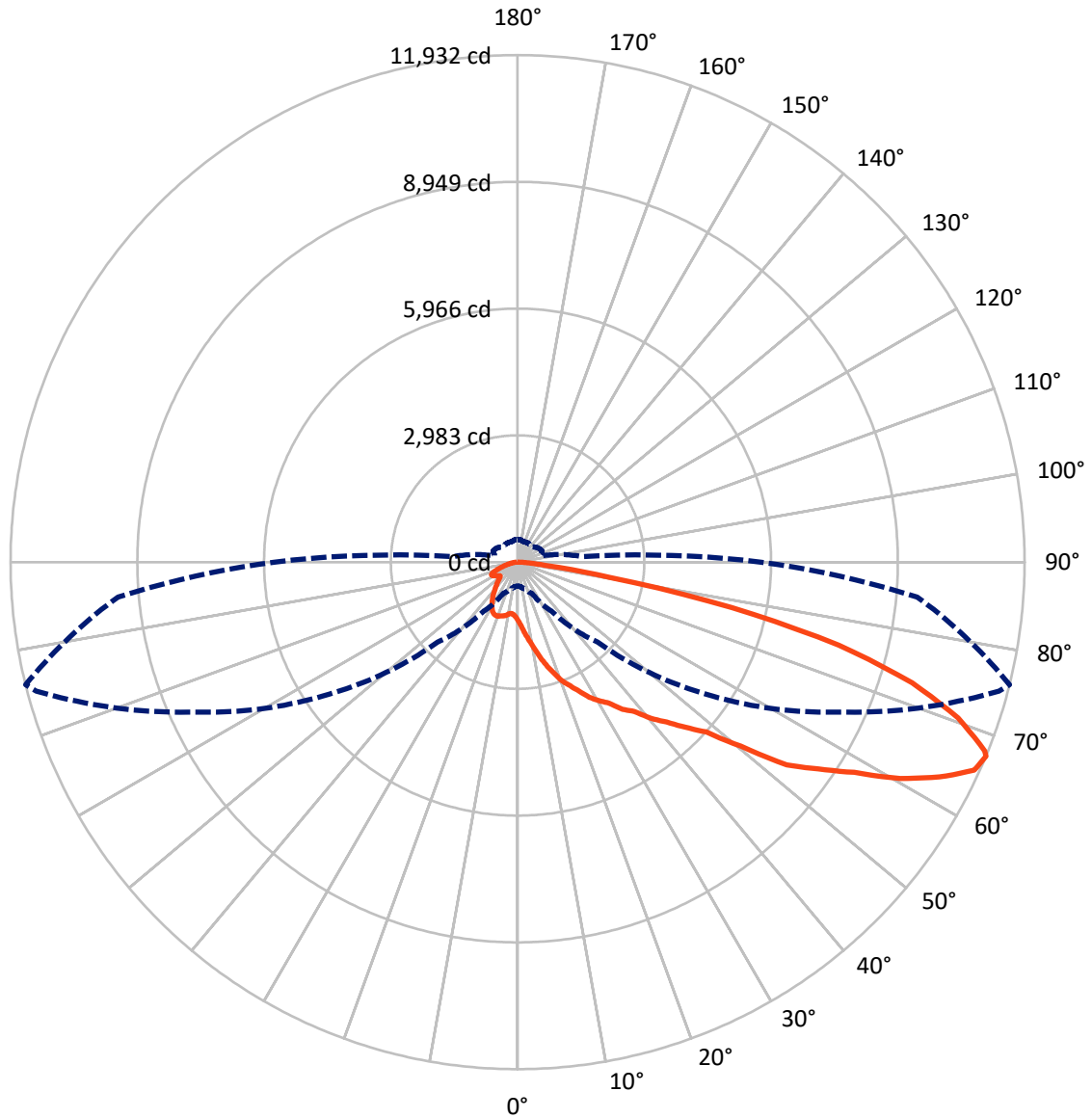
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 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	1907.3	0.0	1907.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11499.6	0.0	11499.6
	% Fixture	85.8	0.0	85.8
Total	Lumens	13406.9	0.0	13406.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	1.2
10°-20°	596.1	4.4
20°-30°	1108.1	8.3
30°-40°	1756.7	13.1
40°-50°	2429.6	18.1
50°-60°	2988.6	22.3
60°-70°	2781.0	20.7
70°-80°	1395.5	10.4
80°-90°	192.4	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°	13406.9	100.0
0°-180°	13406.9	100.0

Coefficient of Utilization



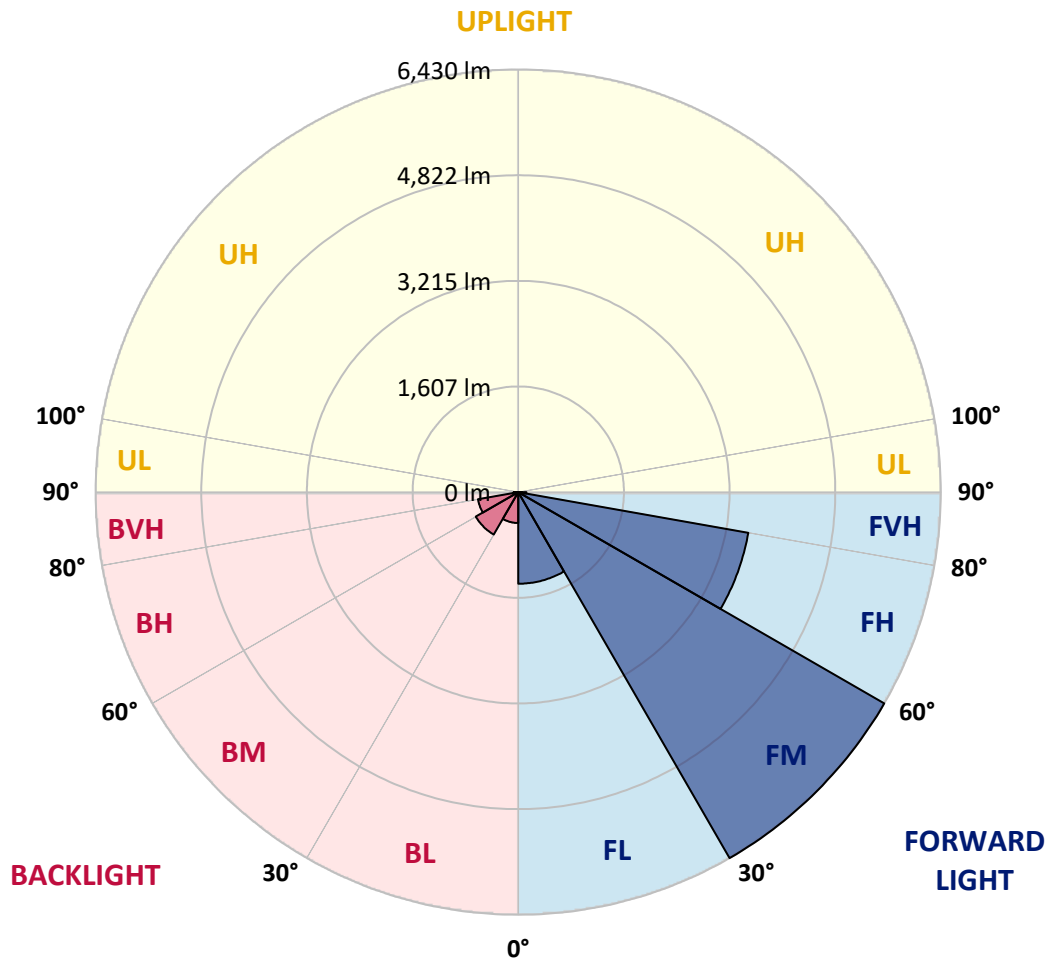
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.4	10.4			
FM (30°-60°)	6429.5	48.0			
FH (60°-80°)	3554.1	26.5			G2/5000
FVH (80°-90°)	122.6	0.9			G2/225
BL (0°-30°)	469.7	3.5	B1/500		
BM (30°-60°)	745.3	5.6	B1/1000		
BH (60°-80°)	622.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	69.8	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°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1903.7	1880.8	1857.8	1809.0	1792.1	1746.3	1662.3	1569.1	1492.7	1482.0	1428.5
5°	2362.0	2328.4	2320.8	2293.3	2206.2	2117.6	1980.1	1830.3	1643.9	1657.7	1474.4
7.5°	2705.8	2685.9	2644.7	2618.7	2566.8	2449.1	2307.0	2108.4	1871.6	1825.8	1576.7
10°	2965.5	2938.0	2936.5	2913.6	2886.1	2765.4	2656.9	2389.5	2085.5	2022.9	1702.0
12.5°	3096.9	3092.3	3173.3	3173.3	3162.6	3112.2	2925.8	2681.3	2288.7	2267.3	1847.1
15°	3239.0	3200.8	3271.1	3324.6	3352.1	3378.0	3223.7	2965.5	2548.4	2507.2	2003.0
17.5°	3239.0	3235.9	3306.2	3394.8	3538.5	3572.1	3488.0	3226.8	2763.8	2733.3	2174.1
20°	3184.0	3228.3	3277.2	3396.4	3552.2	3688.2	3712.6	3494.2	3002.2	2977.7	2368.1
22.5°	3440.7	3397.9	3448.3	3494.2	3614.9	3821.1	3888.3	3729.4	3252.8	3159.6	2543.8
25°	3871.5	3842.5	3805.8	3738.6	3789.0	3879.2	3981.5	3903.6	3466.7	3362.8	2713.4
27.5°	4291.7	4293.2	4213.8	4067.1	3958.6	3976.9	4097.6	4056.4	3646.9	3601.1	2829.5
30°	4889.1	4852.4	4763.8	4565.2	4352.8	4178.6	4158.8	4198.5	3876.1	3787.5	2996.1
32.5°	5336.7	5344.4	5219.1	4933.4	4643.1	4501.0	4326.8	4343.6	4021.3	3955.6	3129.0
35°	5698.8	5689.6	5601.0	5364.2	5020.5	4849.3	4614.1	4517.8	4358.9	4255.0	3332.2
37.5°	6089.9	6015.1	5871.5	5604.1	5384.1	5147.3	4918.1	4701.1	4583.5	4458.2	3506.4
40°	6247.3	6247.3	6054.8	5932.6	5671.3	5492.6	5344.4	4942.5	4857.0	4832.5	3729.4
42.5°	6135.8	6204.5	6125.1	5986.0	5879.1	5653.0	5613.3	5193.1	5194.6	5145.7	3996.8
45°	6125.1	6030.4	5964.7	5999.8	5949.4	5937.2	6038.0	5539.9	5549.1	5543.0	4355.9
47.5°	5818.0	5775.2	5873.0	5931.0	5972.3	6161.7	6452.0	5954.0	6019.7	5973.8	4769.9
50°	5512.4	5504.8	5565.9	5776.7	5955.5	6267.2	6846.2	6592.6	6808.0	6805.0	5520.1
52.5°	4675.2	4756.1	4996.0	5442.1	5883.7	6410.8	7144.1	7408.5	7819.4	7931.0	6141.9
55°	3874.6	3831.8	4186.3	4834.1	5570.5	6467.3	7477.2	7898.9	8503.9	8584.9	6780.5
57.5°	3014.4	3093.9	3373.5	3995.3	4922.7	6187.7	7721.7	8383.2	9277.0	9339.6	7521.5
60°	2249.0	2259.7	2566.8	3067.9	4061.0	5556.7	7801.1	8879.8	10163.1	10341.9	8297.7
62.5°	1414.8	1478.9	1712.7	2206.2	3057.2	4673.6	7445.1	9180.7	11092.1	11139.4	9079.9
65°	762.4	803.6	979.3	1289.5	2135.9	3535.4	6500.9	9000.5	11529.0	11810.1	9428.3
67°	563.8	571.4	652.4	823.5	1428.5	2661.5	5420.7	8348.1	11727.6	11932.4	9442.0
67.5°	528.6	539.3	603.5	739.5	1266.6	2450.6	5138.1	8115.8	11639.0	11859.0	9335.1
70°	452.2	455.3	470.6	508.8	710.4	1474.4	3498.7	6650.7	10788.0	10998.9	8584.9
72.5°	401.8	404.9	411.0	418.6	481.3	852.5	2128.3	5118.2	9376.3	9712.4	7406.9
75°	352.9	363.6	366.7	360.6	409.5	554.6	1132.1	3761.5	7648.3	7811.8	5759.9
77.5°	299.5	304.0	310.1	316.3	365.2	414.0	543.9	2539.3	5249.6	5150.3	3115.3
80°	252.1	253.6	258.2	262.8	316.3	316.3	308.6	1372.0	2293.3	2192.4	1052.7
82.5°	180.3	191.0	201.7	213.9	262.8	212.4	201.7	611.1	725.7	690.6	356.0
85°	70.3	85.6	132.9	146.7	166.5	114.6	134.4	264.3	302.5	299.5	132.9
87.5°	12.2	13.8	36.7	56.5	61.1	39.7	64.2	94.7	113.1	122.2	48.9
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°	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0	1372.0
2.5°	1384.2	1336.9	1280.3	1223.8	1187.1	1129.1	1124.5	1089.3	1084.8	1072.5	1078.6
5°	1394.9	1338.4	1223.8	1133.7	1092.4	1058.8	1066.4	1051.1	1046.6	1038.9	1026.7
7.5°	1478.9	1367.4	1196.3	1118.4	1087.8	1072.5	1072.5	1054.2	1040.5	1049.6	1058.8
10°	1533.9	1381.2	1217.7	1139.8	1115.3	1081.7	1093.9	1071.0	1078.6	1060.3	1060.3
12.5°	1622.6	1459.1	1262.0	1171.8	1132.1	1101.6	1113.8	1087.8	1081.7	1083.2	1078.6
15°	1741.7	1511.0	1281.9	1190.2	1162.7	1124.5	1115.3	1092.4	1069.5	1061.8	1071.0
17.5°	1853.3	1575.2	1295.6	1200.9	1156.6	1113.8	1103.1	1074.1	1066.4	1043.5	1025.2
20°	1986.2	1651.6	1313.9	1210.0	1133.7	1090.9	1063.4	1034.3	1008.4	994.6	1000.7
22.5°	2074.8	1691.3	1323.1	1191.7	1100.0	1060.3	1002.3	982.4	945.7	930.4	918.2
25°	2219.9	1740.2	1300.2	1141.3	1040.5	976.3	924.3	896.8	870.9	851.0	844.9
27.5°	2256.6	1776.9	1246.7	1055.7	945.7	878.5	834.2	800.6	783.8	753.2	747.1
30°	2363.6	1740.2	1167.3	951.8	855.6	786.8	742.5	718.1	678.4	670.7	653.9
32.5°	2432.3	1750.9	1066.4	851.0	751.7	690.6	661.6	637.1	626.4	589.7	580.6
35°	2546.9	1714.2	964.1	757.8	666.1	618.8	594.3	586.7	551.5	534.7	519.5
37.5°	2620.2	1692.8	861.7	652.4	572.9	553.1	560.7	528.6	485.9	453.8	443.1
40°	2748.6	1685.2	745.6	565.3	508.8	504.2	528.6	467.5	389.6	362.1	346.8
42.5°	2933.4	1633.3	655.4	487.4	458.3	478.2	482.8	389.6	345.3	322.4	311.7
45°	3110.7	1643.9	566.8	403.3	398.8	427.8	417.1	330.0	304.0	287.2	296.4
47.5°	3451.4	1697.4	479.7	336.1	359.0	386.5	323.9	294.9	270.4	258.2	259.7
50°	3978.5	1749.4	403.3	307.1	339.2	349.9	278.1	267.4	265.8	241.4	239.9
52.5°	4294.7	1729.5	389.6	343.8	363.6	349.9	302.5	294.9	282.6	272.0	259.7
55°	4797.4	1787.6	418.6	401.8	412.5	336.1	339.2	336.1	327.0	299.5	307.1
57.5°	5197.7	1825.8	456.8	449.2	443.1	349.9	354.5	356.0	349.9	337.7	348.3
60°	5747.7	1902.2	496.5	498.1	499.6	380.4	388.1	397.2	395.7	391.1	394.2
62.5°	6085.4	1867.0	540.9	565.3	557.7	443.1	441.5	447.7	447.7	455.3	459.9
65°	6034.9	1737.1	563.8	624.9	585.2	488.9	488.9	492.0	493.5	508.8	510.3
67°	5732.4	1504.9	551.5	634.1	585.2	507.2	507.2	510.3	499.6	539.3	527.1
67.5°	5591.9	1436.2	540.9	626.4	580.6	505.7	505.7	507.2	498.1	536.3	524.0
70°	4863.1	1066.4	466.0	554.6	537.8	492.0	492.0	482.8	475.2	525.6	514.9
72.5°	4151.1	774.6	374.3	472.1	485.9	473.6	476.7	453.8	432.4	467.5	458.3
75°	3179.4	569.9	291.8	363.6	411.0	443.1	462.9	404.9	377.4	386.5	369.7
77.5°	1773.8	371.3	230.7	268.9	313.2	412.5	444.6	365.2	308.6	297.9	297.9
80°	602.0	217.0	169.6	200.1	215.4	365.2	415.6	296.4	242.9	232.2	224.6
82.5°	227.6	132.9	116.1	137.5	137.5	288.8	339.2	227.6	183.3	236.8	241.4
85°	103.9	79.4	76.4	79.4	79.4	177.2	239.9	148.2	165.0	142.1	125.3
87.5°	41.3	38.2	35.1	33.6	27.5	30.6	82.5	39.7	74.9	19.9	18.3
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)