

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: P477143

Luminaire Tested: **IFLD-S-SA3B-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477143
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

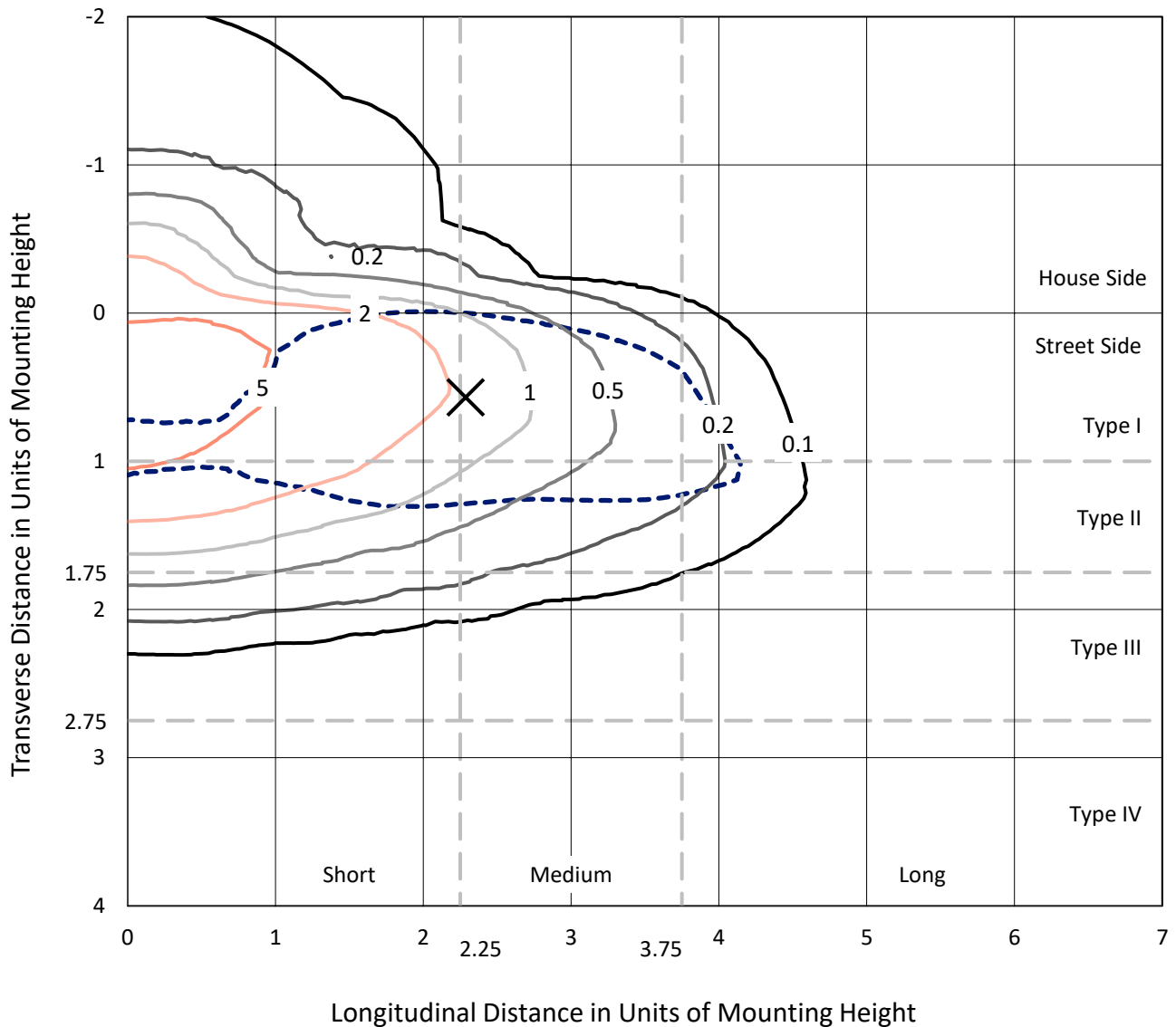
Lumens per Lamp: N/A
Luminaire Lumens: 13596.8 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

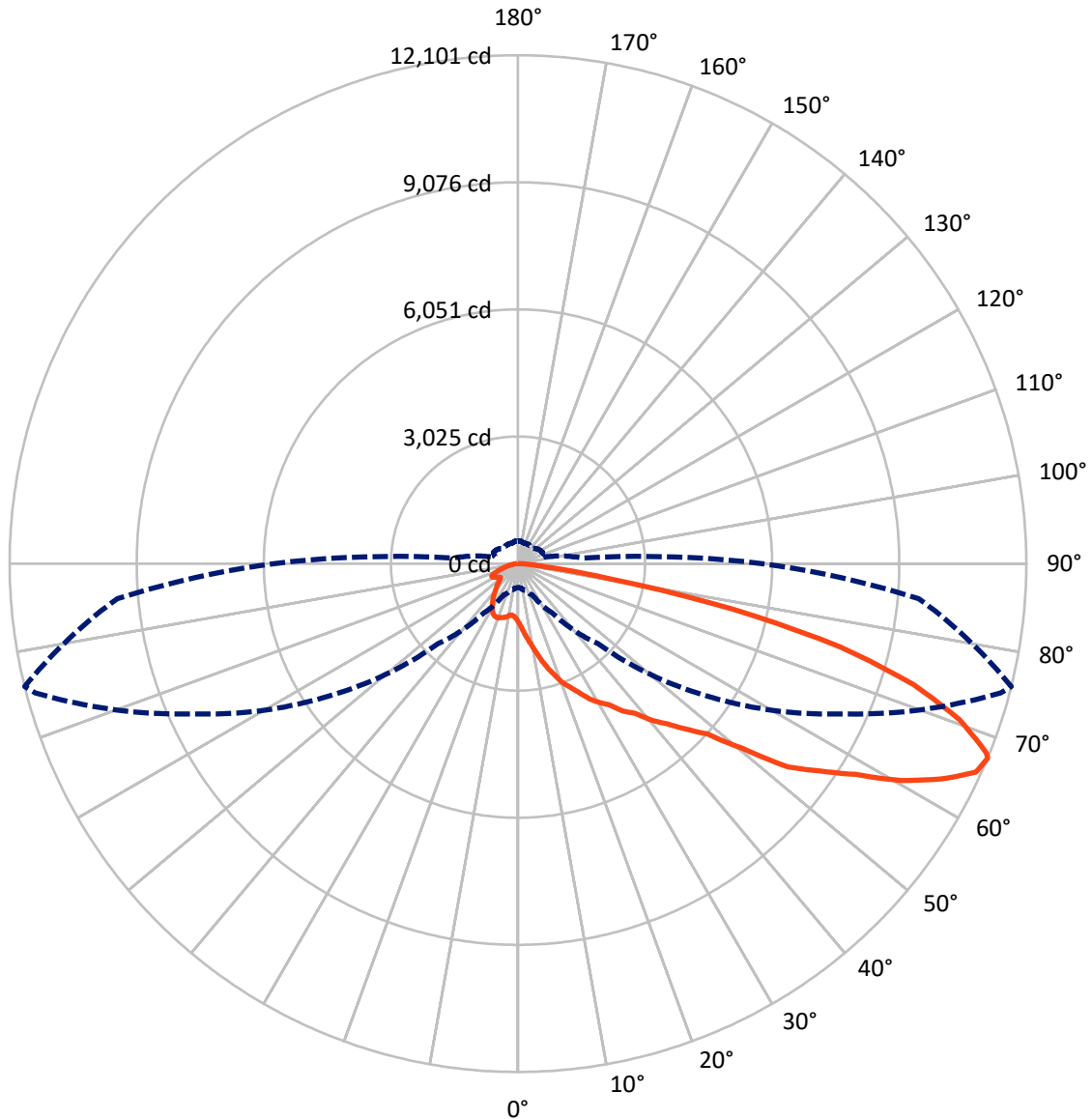
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	1934.3	0.0	1934.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11662.5	0.0	11662.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	13596.8	0.0	13596.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.2
10°-20°	604.5	4.4
20°-30°	1123.8	8.3
30°-40°	1781.5	13.1
40°-50°	2464.0	18.1
50°-60°	3030.9	22.3
60°-70°	2820.4	20.7
70°-80°	1415.3	10.4
80°-90°	195.1	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°	13596.8	100.0
0°-180°	13596.8	100.0

Coefficient of Utilization



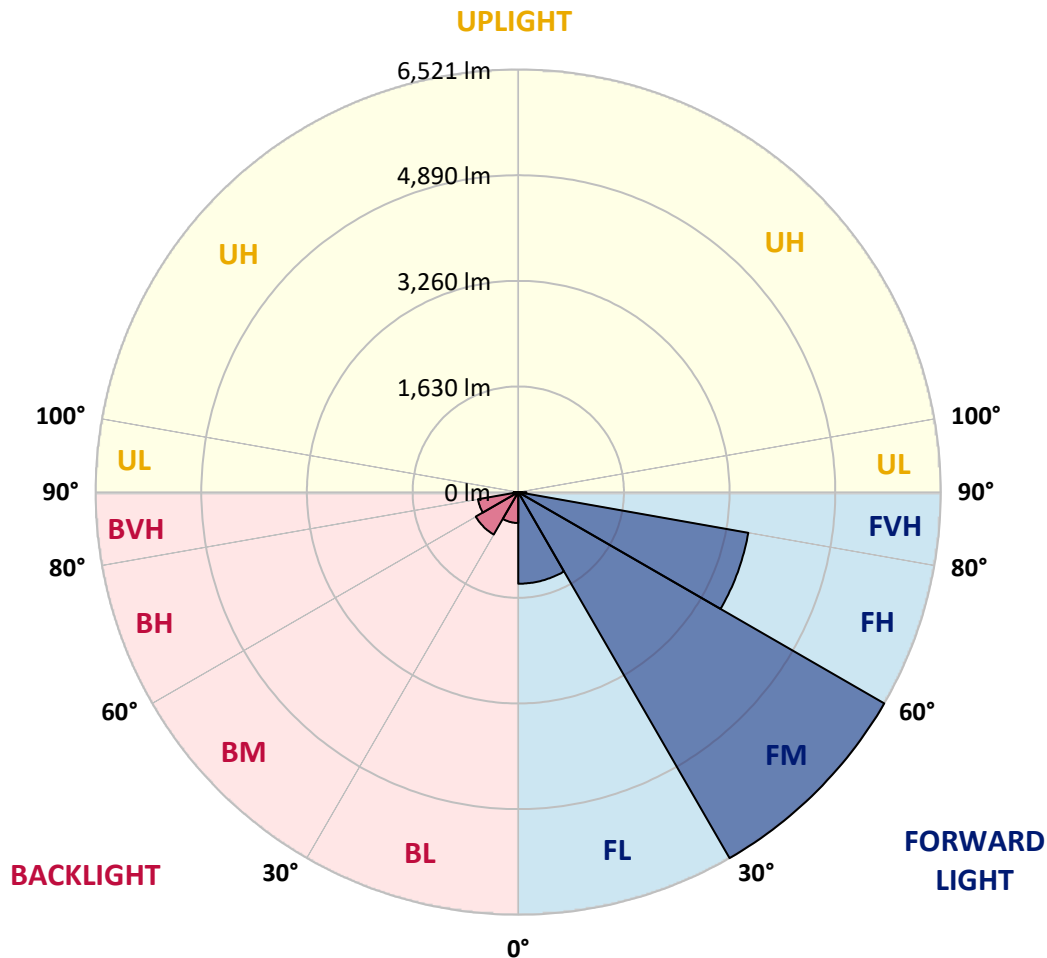
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1413.2	10.4			
FM (30°-60°)	6520.6	48.0			
FH (60°-80°)	3604.4	26.5			G2/5000
FVH (80°-90°)	124.3	0.9			G2/225
BL (0°-30°)	476.3	3.5	B1/500		
BM (30°-60°)	755.9	5.6	B1/1000		
BH (60°-80°)	631.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	70.8	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°	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4
2.5°	1930.6	1907.4	1884.2	1834.6	1817.5	1771.0	1685.8	1591.3	1513.8	1503.0	1448.8
5°	2395.5	2361.4	2353.6	2325.8	2237.4	2147.6	2008.1	1856.3	1667.2	1681.2	1495.2
7.5°	2744.1	2724.0	2682.1	2655.8	2603.1	2483.8	2339.7	2138.3	1898.1	1851.6	1599.1
10°	3007.5	2979.6	2978.1	2954.8	2926.9	2804.5	2694.5	2423.4	2115.0	2051.5	1726.1
12.5°	3140.8	3136.1	3218.2	3218.2	3207.4	3156.3	2967.2	2719.3	2321.1	2299.4	1873.3
15°	3284.9	3246.1	3317.4	3371.6	3399.5	3425.9	3269.4	3007.5	2584.5	2542.7	2031.4
17.5°	3284.9	3281.8	3353.1	3442.9	3588.6	3622.7	3537.4	3272.5	2803.0	2772.0	2204.9
20°	3229.1	3274.0	3323.6	3444.5	3602.5	3740.4	3765.2	3543.6	3044.7	3019.9	2401.7
22.5°	3489.4	3446.0	3497.2	3543.6	3666.0	3875.2	3943.4	3782.3	3298.8	3204.3	2579.9
25°	3926.4	3896.9	3859.7	3791.6	3842.7	3934.1	4037.9	3958.9	3515.7	3410.4	2751.9
27.5°	4352.5	4354.0	4273.4	4124.7	4014.7	4033.3	4155.7	4113.8	3698.6	3652.1	2869.6
30°	4958.3	4921.1	4831.2	4629.8	4414.4	4237.8	4217.7	4257.9	3931.0	3841.1	3038.5
32.5°	5412.3	5420.0	5293.0	5003.2	4708.8	4564.7	4388.1	4405.1	4078.2	4011.6	3173.3
35°	5779.5	5770.2	5680.4	5440.2	5091.6	4918.0	4679.4	4581.8	4420.6	4315.3	3379.4
37.5°	6176.2	6100.3	5954.6	5683.5	5460.3	5220.2	4987.7	4767.7	4648.4	4521.4	3556.0
40°	6335.8	6335.8	6140.6	6016.6	5751.6	5570.3	5420.0	5012.5	4925.8	4901.0	3782.3
42.5°	6222.7	6292.4	6211.8	6070.8	5962.4	5733.0	5692.8	5266.6	5268.2	5218.6	4053.4
45°	6211.8	6115.8	6049.1	6084.8	6033.6	6021.2	6123.5	5618.4	5627.7	5621.5	4417.5
47.5°	5900.4	5857.0	5956.2	6015.0	6056.9	6249.0	6543.4	6038.3	6104.9	6058.4	4837.4
50°	5590.5	5582.7	5644.7	5858.5	6039.8	6355.9	6943.2	6686.0	6904.4	6901.3	5598.2
52.5°	4741.4	4823.5	5066.8	5519.2	5967.0	6501.6	7245.3	7513.4	7930.2	8043.3	6228.9
55°	3929.5	3886.1	4245.5	4902.5	5649.4	6558.9	7583.1	8010.8	8624.4	8706.5	6876.5
57.5°	3057.1	3137.7	3421.2	4051.9	4992.4	6275.4	7831.0	8501.9	9408.4	9471.9	7628.0
60°	2280.8	2291.7	2603.1	3111.3	4118.5	5635.4	7911.6	9005.5	10307.1	10488.4	8415.2
62.5°	1434.8	1499.9	1737.0	2237.4	3100.5	4739.8	7550.6	9310.8	11249.2	11297.2	9208.5
65°	773.2	815.0	993.2	1307.8	2166.2	3585.5	6593.0	9127.9	11692.3	11977.4	9561.8
67°	571.8	579.5	661.6	835.2	1448.8	2699.2	5497.5	8466.3	11893.7	12101.4	9575.7
67.5°	536.1	547.0	612.0	749.9	1284.5	2485.4	5210.9	8230.8	11803.9	12027.0	9467.3
70°	458.6	461.7	477.2	516.0	720.5	1495.2	3548.3	6744.8	10940.8	11154.6	8706.5
72.5°	407.5	410.6	416.8	424.6	488.1	864.6	2158.4	5190.7	9509.1	9850.0	7511.8
75°	357.9	368.8	371.9	365.7	415.3	562.5	1148.2	3814.8	7756.6	7922.4	5841.5
77.5°	303.7	308.3	314.5	320.7	370.3	419.9	551.6	2575.2	5324.0	5223.3	3159.4
80°	255.7	257.2	261.9	266.5	320.7	320.7	313.0	1391.4	2325.8	2223.5	1067.6
82.5°	182.8	193.7	204.5	216.9	266.5	215.4	204.5	619.8	736.0	700.4	361.0
85°	71.3	86.8	134.8	148.7	168.9	116.2	136.4	268.1	306.8	303.7	134.8
87.5°	12.4	13.9	37.2	57.3	62.0	40.3	65.1	96.1	114.7	124.0	49.6
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°	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4	1391.4
2.5°	1403.8	1355.8	1298.5	1241.1	1203.9	1145.1	1140.4	1104.8	1100.1	1087.7	1093.9
5°	1414.7	1357.3	1241.1	1149.7	1107.9	1073.8	1081.5	1066.0	1061.4	1053.6	1041.2
7.5°	1499.9	1386.8	1213.2	1134.2	1103.2	1087.7	1087.7	1069.1	1055.2	1064.5	1073.8
10°	1555.7	1400.7	1234.9	1155.9	1131.1	1097.0	1109.4	1086.2	1093.9	1075.3	1075.3
12.5°	1645.5	1479.7	1279.9	1188.4	1148.2	1117.2	1129.6	1103.2	1097.0	1098.6	1093.9
15°	1766.4	1532.4	1300.0	1207.0	1179.1	1140.4	1131.1	1107.9	1084.6	1076.9	1086.2
17.5°	1879.5	1597.5	1314.0	1217.9	1172.9	1129.6	1118.7	1089.3	1081.5	1058.3	1039.7
20°	2014.3	1675.0	1332.5	1227.2	1149.7	1106.3	1078.4	1049.0	1022.7	1008.7	1014.9
22.5°	2104.2	1715.3	1341.8	1208.6	1115.6	1075.3	1016.5	996.3	959.1	943.6	931.2
25°	2251.4	1764.8	1318.6	1157.5	1055.2	990.1	937.4	909.5	883.2	863.1	856.9
27.5°	2288.6	1802.0	1264.4	1070.7	959.1	890.9	846.0	811.9	794.9	763.9	757.7
30°	2397.0	1764.8	1183.8	965.3	867.7	798.0	753.0	728.3	688.0	680.2	663.2
32.5°	2466.8	1775.7	1081.5	863.1	762.3	700.4	670.9	646.1	635.3	598.1	588.8
35°	2583.0	1738.5	977.7	768.5	675.6	627.5	602.7	595.0	559.4	542.3	526.8
37.5°	2657.3	1716.8	873.9	661.6	581.1	560.9	568.7	536.1	492.7	460.2	449.3
40°	2787.5	1709.1	756.1	573.3	516.0	511.3	536.1	474.1	395.1	367.2	351.7
42.5°	2975.0	1656.4	664.7	494.3	464.8	485.0	489.6	395.1	350.2	326.9	316.1
45°	3154.7	1667.2	574.9	409.1	404.4	433.9	423.0	334.7	308.3	291.3	300.6
47.5°	3500.3	1721.5	486.5	340.9	364.1	392.0	328.5	299.0	274.3	261.9	263.4
50°	4034.8	1774.1	409.1	311.4	344.0	354.8	282.0	271.2	269.6	244.8	243.3
52.5°	4355.6	1754.0	395.1	348.6	368.8	354.8	306.8	299.0	286.7	275.8	263.4
55°	4865.3	1812.9	424.6	407.5	418.4	340.9	344.0	340.9	331.6	303.7	311.4
57.5°	5271.3	1851.6	463.3	455.5	449.3	354.8	359.5	361.0	354.8	342.4	353.3
60°	5829.1	1929.1	503.6	505.1	506.7	385.8	393.6	402.9	401.3	396.7	399.8
62.5°	6171.5	1893.5	548.5	573.3	565.6	449.3	447.8	454.0	454.0	461.7	466.4
65°	6120.4	1761.7	571.8	633.7	593.4	495.8	495.8	498.9	500.5	516.0	517.5
67°	5813.6	1526.2	559.4	643.0	593.4	514.4	514.4	517.5	506.7	547.0	534.6
67.5°	5671.1	1456.5	548.5	635.3	588.8	512.9	512.9	514.4	505.1	543.9	531.5
70°	4932.0	1081.5	472.6	562.5	545.4	498.9	498.9	489.6	481.9	533.0	522.2
72.5°	4209.9	785.6	379.6	478.8	492.7	480.3	483.4	460.2	438.5	474.1	464.8
75°	3224.4	578.0	295.9	368.8	416.8	449.3	469.5	410.6	382.7	392.0	375.0
77.5°	1798.9	376.5	234.0	272.7	317.6	418.4	450.9	370.3	313.0	302.1	302.1
80°	610.5	220.0	172.0	203.0	218.5	370.3	421.5	300.6	246.4	235.5	227.8
82.5°	230.9	134.8	117.8	139.5	139.5	292.8	344.0	230.9	185.9	240.2	244.8
85°	105.4	80.6	77.5	80.6	80.6	179.7	243.3	150.3	167.3	144.1	127.1
87.5°	41.8	38.7	35.6	34.1	27.9	31.0	83.7	40.3	75.9	20.1	18.6
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)