

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: P476865

Luminaire Tested: **IFLD-S-SA2B-727-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P476865  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-727-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

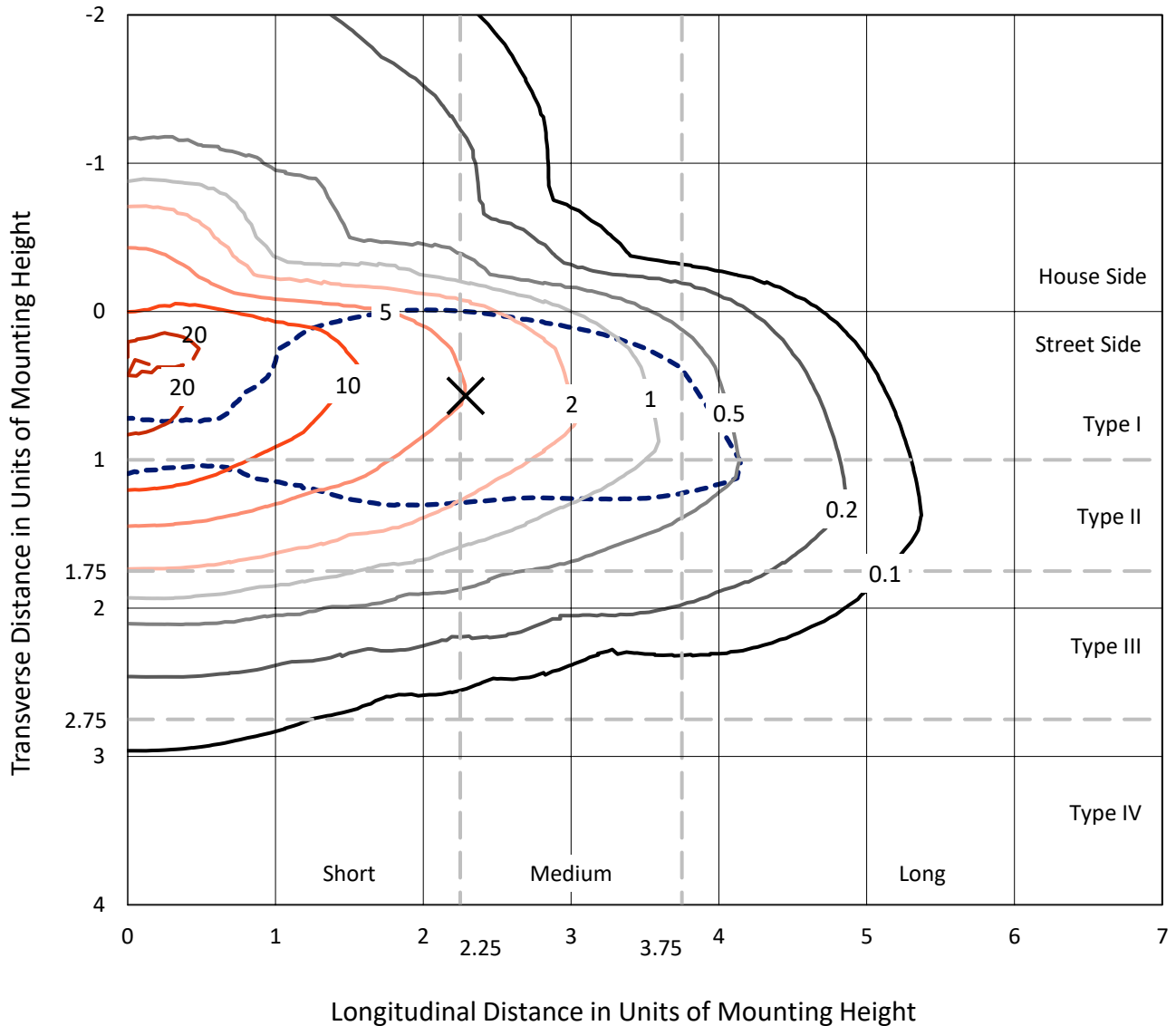
Lumens per Lamp: N/A  
Luminaire Lumens: 9602.4 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 82.4  
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

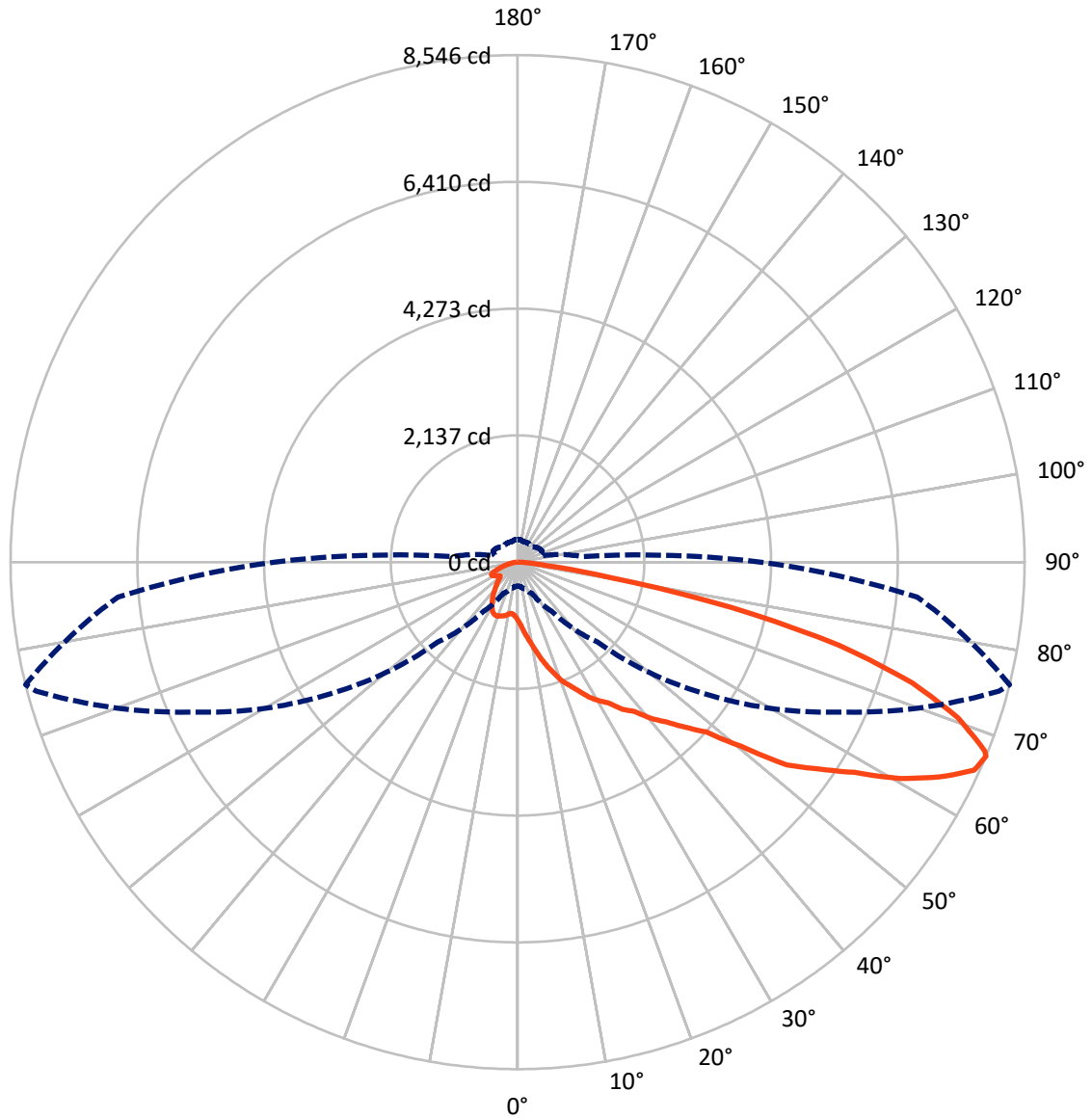
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 22.9 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
<b>House Side</b>	Lumens	1366.1	0.0	1366.1
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	8236.3	0.0	8236.3
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	9602.4	0.0	9602.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.8	1.2
10°-20°	426.9	4.4
20°-30°	793.7	8.3
30°-40°	1258.2	13.1
40°-50°	1740.1	18.1
50°-60°	2140.5	22.3
60°-70°	1991.8	20.7
70°-80°	999.5	10.4
80°-90°	137.8	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°	9602.4	100.0
0°-180°	9602.4	100.0

**Coefficient of Utilization**



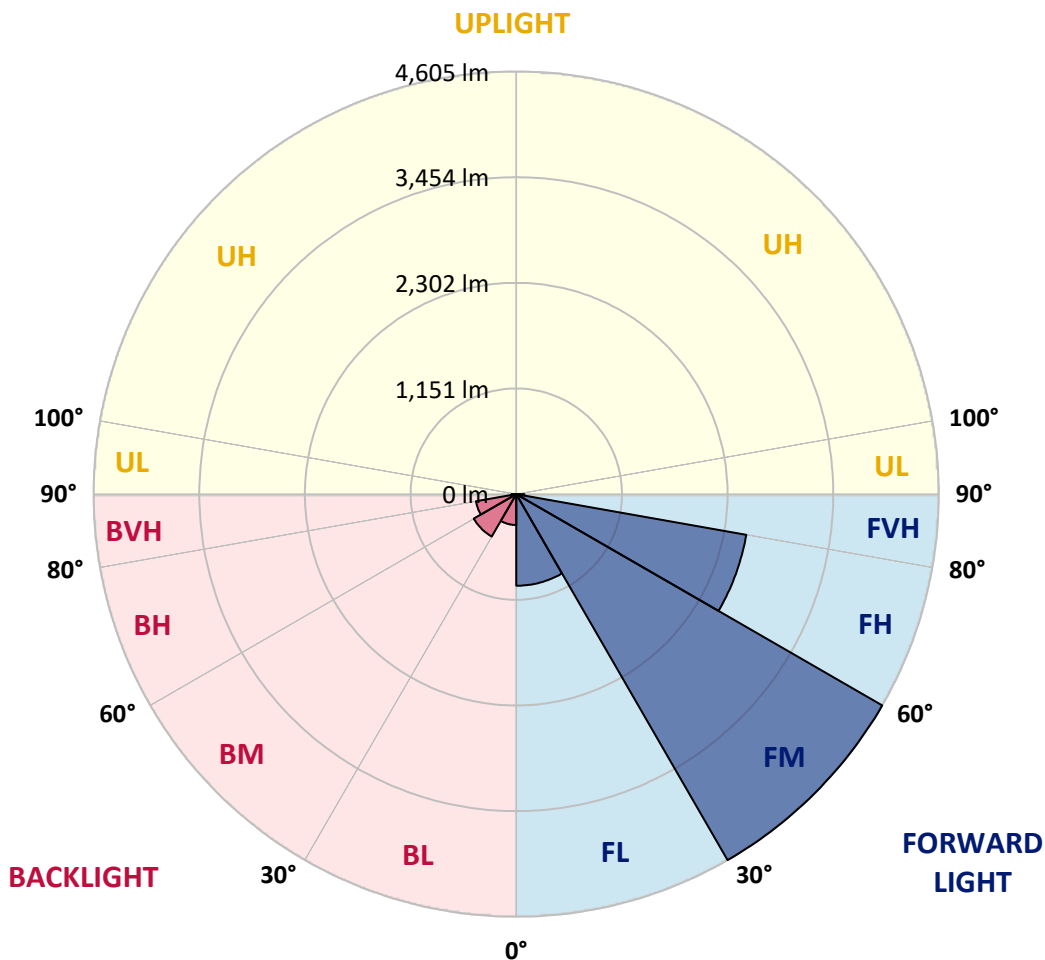
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	998.0	10.4			
FM (30°-60°)	4605.0	48.0			
FH (60°-80°)	2545.5	26.5			G2/5000
FVH (80°-90°)	87.8	0.9			G1/100
BL (0°-30°)	336.4	3.5	B1/500		
BM (30°-60°)	533.8	5.6	B1/1000		
BH (60°-80°)	445.8	4.6	B1/500		G1/500
BVH (80°-90°)	50.0	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	1363.5	1347.0	1330.6	1295.6	1283.6	1250.7	1190.6	1123.8	1069.1	1061.4	1023.1
5°	1691.7	1667.7	1662.2	1642.5	1580.1	1516.7	1418.2	1310.9	1177.4	1187.3	1056.0
7.5°	1938.0	1923.7	1894.2	1875.6	1838.4	1754.1	1652.3	1510.1	1340.5	1307.7	1129.3
10°	2124.0	2104.3	2103.2	2086.8	2067.1	1980.6	1902.9	1711.4	1493.7	1448.8	1219.0
12.5°	2218.1	2214.8	2272.8	2272.8	2265.1	2229.0	2095.5	1920.4	1639.2	1623.9	1323.0
15°	2319.8	2292.5	2342.8	2381.1	2400.8	2419.4	2308.9	2124.0	1825.2	1795.7	1434.6
17.5°	2319.8	2317.7	2368.0	2431.5	2534.3	2558.4	2498.2	2311.1	1979.5	1957.6	1557.1
20°	2280.5	2312.2	2347.2	2432.6	2544.2	2641.6	2659.1	2502.6	2150.2	2132.7	1696.1
22.5°	2464.3	2433.7	2469.8	2502.6	2589.0	2736.8	2784.9	2671.1	2329.7	2262.9	1822.0
25°	2772.9	2752.1	2725.8	2677.7	2713.8	2778.3	2851.7	2795.9	2482.9	2408.5	1943.4
27.5°	3073.8	3074.9	3018.0	2912.9	2835.3	2848.4	2934.8	2905.3	2612.0	2579.2	2026.6
30°	3501.7	3475.4	3411.9	3269.7	3117.6	2992.8	2978.6	3007.1	2776.2	2712.7	2145.9
32.5°	3822.3	3827.8	3738.0	3533.4	3325.5	3223.7	3099.0	3111.0	2880.1	2833.1	2241.1
35°	4081.6	4075.1	4011.6	3842.0	3595.8	3473.2	3304.7	3235.8	3121.9	3047.5	2386.6
37.5°	4361.8	4308.1	4205.3	4013.8	3856.2	3686.6	3522.5	3367.1	3282.8	3193.1	2511.3
40°	4474.5	4474.5	4336.6	4249.0	4061.9	3933.9	3827.8	3540.0	3478.7	3461.2	2671.1
42.5°	4394.6	4443.8	4386.9	4287.3	4210.7	4048.8	4020.3	3719.4	3720.5	3685.5	2862.6
45°	4386.9	4319.1	4272.0	4297.2	4261.1	4252.3	4324.6	3967.8	3974.4	3970.0	3119.8
47.5°	4167.0	4136.3	4206.4	4248.0	4277.5	4413.2	4621.1	4264.4	4311.4	4278.6	3416.3
50°	3948.1	3942.7	3986.4	4137.4	4265.5	4488.7	4903.4	4721.8	4876.1	4873.9	3953.6
52.5°	3348.5	3406.5	3578.3	3897.8	4214.0	4591.6	5116.8	5306.1	5600.5	5680.3	4399.0
55°	2775.1	2744.4	2998.3	3462.3	3989.7	4632.0	5355.4	5657.4	6090.7	6148.7	4856.4
57.5°	2159.0	2215.9	2416.1	2861.5	3525.7	4431.8	5530.4	6004.3	6644.4	6689.3	5387.1
60°	1610.8	1618.4	1838.4	2197.3	2908.6	3979.9	5587.3	6359.9	7279.1	7407.1	5943.0
62.5°	1013.3	1059.3	1226.7	1580.1	2189.6	3347.4	5332.4	6575.5	7944.4	7978.3	6503.2
65°	546.0	575.6	701.4	923.6	1529.8	2532.1	4656.1	6446.3	8257.4	8458.7	6752.7
67°	403.8	409.3	467.3	589.8	1023.1	1906.2	3882.5	5979.1	8399.6	8546.2	6762.6
67.5°	378.6	386.3	432.2	529.6	907.1	1755.2	3680.0	5812.8	8336.1	8493.7	6686.0
70°	323.9	326.1	337.0	364.4	508.8	1056.0	2505.9	4763.4	7726.6	7877.6	6148.7
72.5°	287.8	290.0	294.4	299.8	344.7	610.6	1524.3	3665.8	6715.5	6956.3	5305.0
75°	252.8	260.4	262.6	258.2	293.3	397.2	810.9	2694.1	5477.9	5595.0	4125.4
77.5°	214.5	217.8	222.1	226.5	261.5	296.5	389.6	1818.7	3759.9	3688.8	2231.2
80°	180.6	181.6	184.9	188.2	226.5	226.5	221.0	982.7	1642.5	1570.3	754.0
82.5°	129.1	136.8	144.4	153.2	188.2	152.1	144.4	437.7	519.8	494.6	255.0
85°	50.3	61.3	95.2	105.0	119.3	82.1	96.3	189.3	216.7	214.5	95.2
87.5°	8.8	9.8	26.3	40.5	43.8	28.5	46.0	67.8	81.0	87.5	35.0
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°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	991.4	957.5	917.0	876.5	850.2	808.7	805.4	780.2	776.9	768.2	772.6
5°	999.1	958.6	876.5	811.9	782.4	758.3	763.8	752.9	749.6	744.1	735.3
7.5°	1059.3	979.4	856.8	801.0	779.1	768.2	768.2	755.0	745.2	751.8	758.3
10°	1098.6	989.2	872.1	816.3	798.8	774.7	783.5	767.1	772.6	759.4	759.4
12.5°	1162.1	1045.0	903.9	839.3	810.9	789.0	797.7	779.1	774.7	775.8	772.6
15°	1247.5	1082.2	918.1	852.4	832.7	805.4	798.8	782.4	766.0	760.5	767.1
17.5°	1327.3	1128.2	927.9	860.1	828.4	797.7	790.1	769.3	763.8	747.4	734.3
20°	1422.5	1182.9	941.1	866.7	811.9	781.3	761.6	740.8	722.2	712.4	716.7
22.5°	1486.0	1211.4	947.6	853.5	787.9	759.4	717.8	703.6	677.4	666.4	657.7
25°	1590.0	1246.4	931.2	817.4	745.2	699.2	662.0	642.3	623.7	609.5	605.1
27.5°	1616.2	1272.6	892.9	756.1	677.4	629.2	597.5	573.4	561.4	539.5	535.1
30°	1692.8	1246.4	836.0	681.7	612.8	563.5	531.8	514.3	485.9	480.4	468.3
32.5°	1742.1	1254.0	763.8	609.5	538.4	494.6	473.8	456.3	448.7	422.4	415.8
35°	1824.1	1227.8	690.5	542.8	477.1	443.2	425.7	420.2	395.0	383.0	372.1
37.5°	1876.7	1212.4	617.2	467.3	410.4	396.1	401.6	378.6	348.0	325.0	317.3
40°	1968.6	1207.0	534.0	404.9	364.4	361.1	378.6	334.8	279.0	259.3	248.4
42.5°	2101.0	1169.8	469.4	349.1	328.3	342.5	345.8	279.0	247.3	230.9	223.2
45°	2227.9	1177.4	406.0	288.9	285.6	306.4	298.7	236.4	217.8	205.7	212.3
47.5°	2472.0	1215.7	343.6	240.7	257.2	276.9	232.0	211.2	193.7	184.9	186.0
50°	2849.5	1252.9	288.9	219.9	242.9	250.6	199.2	191.5	190.4	172.9	171.8
52.5°	3076.0	1238.7	279.0	246.2	260.4	250.6	216.7	211.2	202.4	194.8	186.0
55°	3436.0	1280.3	299.8	287.8	295.5	240.7	242.9	240.7	234.2	214.5	219.9
57.5°	3722.7	1307.7	327.2	321.7	317.3	250.6	253.9	255.0	250.6	241.8	249.5
60°	4116.6	1362.4	355.6	356.7	357.8	272.5	277.9	284.5	283.4	280.1	282.3
62.5°	4358.5	1337.2	387.4	404.9	399.4	317.3	316.2	320.6	320.6	326.1	329.4
65°	4322.4	1244.2	403.8	447.6	419.1	350.2	350.2	352.4	353.4	364.4	365.5
67°	4105.7	1077.9	395.0	454.1	419.1	363.3	363.3	365.5	357.8	386.3	377.5
67.5°	4005.0	1028.6	387.4	448.7	415.8	362.2	362.2	363.3	356.7	384.1	375.3
70°	3483.1	763.8	333.8	397.2	385.2	352.4	352.4	345.8	340.3	376.4	368.8
72.5°	2973.1	554.8	268.1	338.1	348.0	339.2	341.4	325.0	309.7	334.8	328.3
75°	2277.2	408.2	209.0	260.4	294.4	317.3	331.6	290.0	270.3	276.9	264.8
77.5°	1270.4	265.9	165.2	192.6	224.3	295.5	318.4	261.5	221.0	213.4	213.4
80°	431.1	155.4	121.5	143.3	154.3	261.5	297.6	212.3	174.0	166.3	160.9
82.5°	163.0	95.2	83.2	98.5	98.5	206.8	242.9	163.0	131.3	169.6	172.9
85°	74.4	56.9	54.7	56.9	56.9	126.9	171.8	106.1	118.2	101.8	89.7
87.5°	29.5	27.4	25.2	24.1	19.7	21.9	59.1	28.5	53.6	14.2	13.1
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)