

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: P476944

Luminaire Tested: **IFLD-S-SA2C-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476944
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

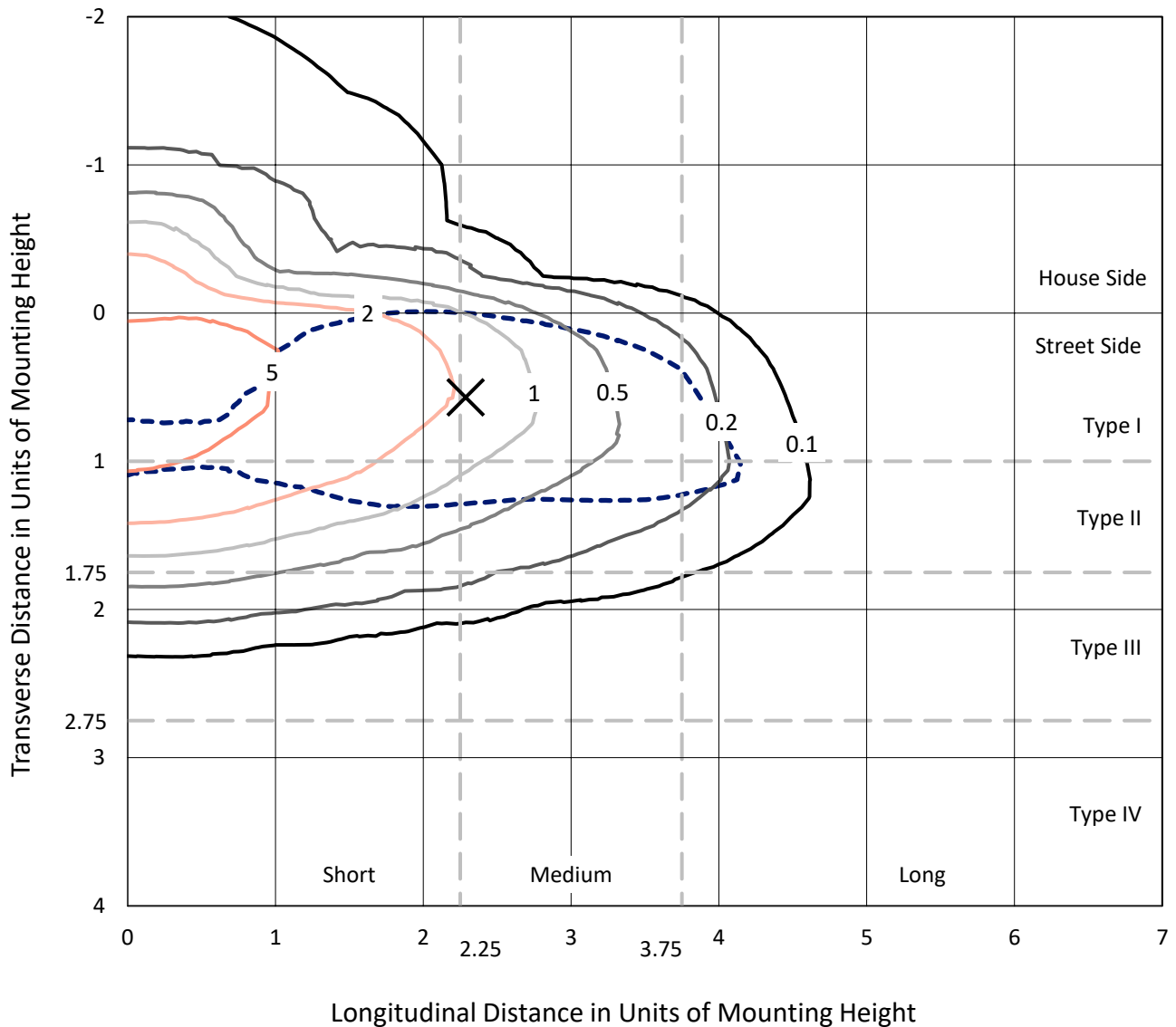
Lumens per Lamp: N/A
Luminaire Lumens: 14097.5 lumens
Efficiency: N/A
Efficacy: 130.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108.2
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

REPORT NUMBER: P476944
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

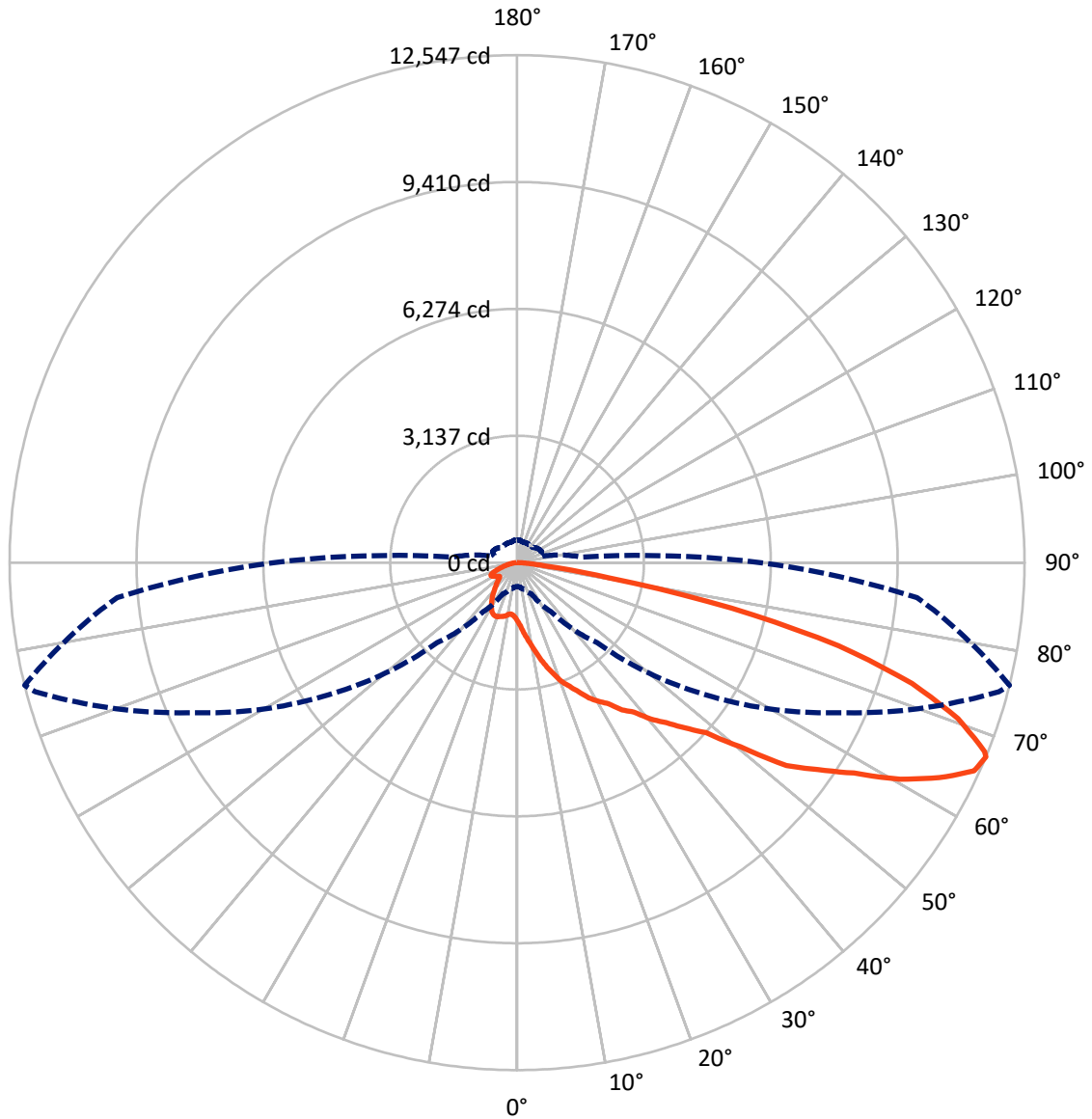
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

REPORT NUMBER: P476944
CATALOG NUMBER: IFLD-S-SA2C-735-U-T2R

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	2005.5	0.0	2005.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	12091.9	0.0	12091.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	14097.5	0.0	14097.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.1	1.2
10°-20°	626.8	4.4
20°-30°	1165.2	8.3
30°-40°	1847.1	13.1
40°-50°	2554.8	18.1
50°-60°	3142.5	22.3
60°-70°	2924.3	20.7
70°-80°	1467.4	10.4
80°-90°	202.3	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°	14097.5	100.0
0°-180°	14097.5	100.0

Coefficient of Utilization



REPORT NUMBER: P476944

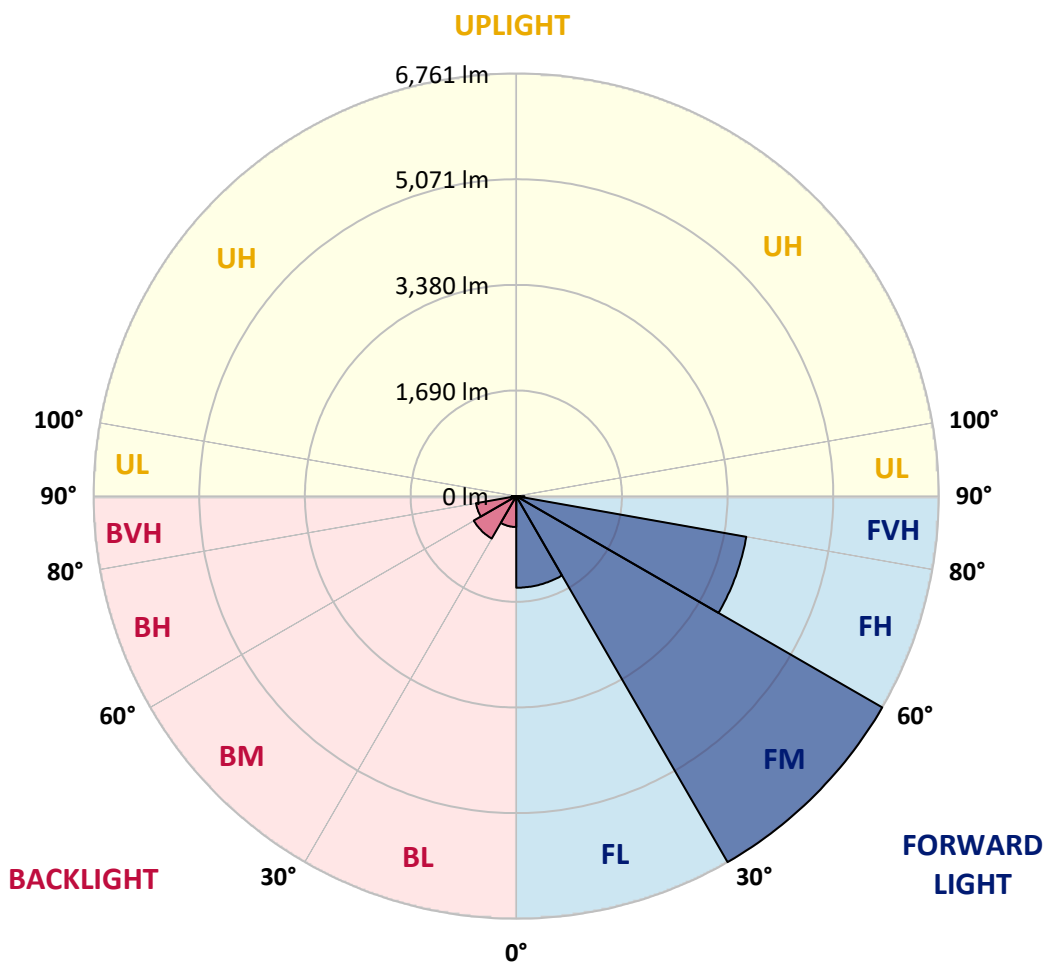
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1465.2	10.4			
FM (30°-60°)	6760.7	48.0			
FH (60°-80°)	3737.1	26.5			G2/5000
FVH (80°-90°)	128.9	0.9			G2/225
BL (0°-30°)	493.9	3.5	B1/500		
BM (30°-60°)	783.7	5.6	B1/1000		
BH (60°-80°)	654.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	73.4	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





REPORT NUMBER: P476944
 CATALOG NUMBER: IFLD-S-SA2C-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7
2.5°	2001.7	1977.6	1953.5	1902.1	1884.5	1836.3	1747.9	1649.9	1569.6	1558.3	1502.1
5°	2483.7	2448.3	2440.3	2411.4	2319.8	2226.6	2082.1	1924.6	1728.6	1743.1	1550.3
7.5°	2845.2	2824.3	2780.9	2753.6	2699.0	2575.3	2425.9	2217.0	1968.0	1919.8	1657.9
10°	3118.3	3089.3	3087.7	3063.6	3034.7	2907.8	2793.7	2512.6	2192.9	2127.0	1789.7
12.5°	3256.4	3251.6	3336.8	3336.8	3325.5	3272.5	3076.5	2819.5	2406.6	2384.1	1942.3
15°	3405.8	3365.7	3439.6	3495.8	3524.7	3552.0	3389.8	3118.3	2679.7	2636.3	2106.2
17.5°	3405.8	3402.6	3476.5	3569.7	3720.7	3756.1	3667.7	3393.0	2906.2	2874.1	2286.1
20°	3348.0	3394.6	3446.0	3571.3	3735.2	3878.2	3903.9	3674.1	3156.8	3131.1	2490.1
22.5°	3617.9	3572.9	3625.9	3674.1	3801.0	4017.9	4088.6	3921.5	3420.3	3322.3	2674.9
25°	4070.9	4040.4	4001.9	3931.2	3984.2	4079.0	4186.6	4104.7	3645.2	3536.0	2853.2
27.5°	4512.7	4514.3	4430.8	4276.6	4162.5	4181.8	4308.7	4265.3	3834.8	3786.6	2975.3
30°	5140.9	5102.3	5009.1	4800.3	4577.0	4393.8	4373.0	4414.7	4075.8	3982.6	3150.4
32.5°	5611.6	5619.6	5487.9	5187.5	4882.2	4732.8	4549.7	4567.4	4228.4	4159.3	3290.2
35°	5992.3	5982.7	5889.5	5640.5	5279.0	5099.1	4851.7	4750.5	4583.4	4474.2	3503.8
37.5°	6403.6	6324.9	6173.9	5892.7	5661.4	5412.4	5171.4	4943.3	4819.6	4687.8	3687.0
40°	6569.1	6569.1	6366.7	6238.1	5963.4	5775.5	5619.6	5197.1	5107.1	5081.4	3921.5
42.5°	6451.8	6524.1	6440.6	6294.4	6181.9	5944.1	5902.4	5460.6	5462.2	5410.8	4202.7
45°	6440.6	6341.0	6271.9	6308.8	6255.8	6243.0	6349.0	5825.3	5834.9	5828.5	4580.2
47.5°	6117.6	6072.7	6175.5	6236.5	6279.9	6479.1	6784.4	6260.6	6329.7	6281.5	5015.6
50°	5796.3	5788.3	5852.6	6074.3	6262.2	6590.0	7198.8	6932.2	7158.7	7155.5	5804.4
52.5°	4916.0	5001.1	5253.3	5722.4	6186.7	6741.0	7512.1	7790.0	8222.2	8339.5	6458.2
55°	4074.1	4029.2	4401.9	5083.0	5857.4	6800.4	7862.3	8305.7	8941.9	9027.1	7129.8
57.5°	3169.7	3253.2	3547.2	4201.1	5176.2	6506.4	8119.4	8815.0	9754.8	9820.7	7908.9
60°	2364.8	2376.1	2699.0	3225.9	4270.1	5842.9	8202.9	9337.1	10686.6	10874.6	8725.0
62.5°	1487.6	1555.1	1800.9	2319.8	3214.7	4914.4	7828.6	9653.6	11663.4	11713.2	9547.6
65°	801.7	845.0	1029.8	1355.9	2245.9	3717.5	6835.8	9464.0	12122.8	12418.4	9913.9
67°	592.8	600.8	686.0	865.9	1502.1	2798.6	5700.0	8778.1	12331.7	12547.0	9928.3
67.5°	555.9	567.1	634.6	777.6	1331.8	2576.9	5402.7	8533.9	12238.5	12469.9	9815.9
70°	475.5	478.7	494.8	535.0	747.0	1550.3	3678.9	6993.2	11343.7	11565.4	9027.1
72.5°	422.5	425.7	432.2	440.2	506.1	896.4	2237.9	5381.9	9859.2	10212.7	7788.4
75°	371.1	382.4	385.6	379.1	430.5	583.2	1190.4	3955.3	8042.3	8214.2	6056.6
77.5°	314.9	319.7	326.1	332.6	384.0	435.4	571.9	2670.0	5520.0	5415.6	3275.7
80°	265.1	266.7	271.5	276.3	332.6	332.6	324.5	1442.7	2411.4	2305.4	1106.9
82.5°	189.6	200.8	212.1	224.9	276.3	223.3	212.1	642.6	763.1	726.1	374.3
85°	73.9	90.0	139.8	154.2	175.1	120.5	141.4	277.9	318.1	314.9	139.8
87.5°	12.9	14.5	38.6	59.4	64.3	41.8	67.5	99.6	118.9	128.5	51.4
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°	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7	1442.7
2.5°	1455.5	1405.7	1346.3	1286.8	1248.3	1187.2	1182.4	1145.5	1140.6	1127.8	1134.2
5°	1466.8	1407.3	1286.8	1192.0	1148.7	1113.3	1121.4	1105.3	1100.5	1092.4	1079.6
7.5°	1555.1	1437.8	1257.9	1176.0	1143.8	1127.8	1127.8	1108.5	1094.0	1103.7	1113.3
10°	1613.0	1452.3	1280.4	1198.5	1172.8	1137.4	1150.3	1126.2	1134.2	1114.9	1114.9
12.5°	1706.1	1534.2	1327.0	1232.2	1190.4	1158.3	1171.2	1143.8	1137.4	1139.0	1134.2
15°	1831.4	1588.9	1347.9	1251.5	1222.6	1182.4	1172.8	1148.7	1124.6	1116.5	1126.2
17.5°	1948.7	1656.3	1362.3	1262.7	1216.1	1171.2	1159.9	1129.4	1121.4	1097.3	1078.0
20°	2088.5	1736.7	1381.6	1272.4	1192.0	1147.1	1118.1	1087.6	1060.3	1045.8	1052.3
22.5°	2181.7	1778.4	1391.3	1253.1	1156.7	1114.9	1053.9	1033.0	994.4	978.4	965.5
25°	2334.3	1829.8	1367.2	1200.1	1094.0	1026.6	971.9	943.0	915.7	894.8	888.4
27.5°	2372.8	1868.4	1310.9	1110.1	994.4	923.8	877.2	841.8	824.1	792.0	785.6
30°	2485.3	1829.8	1227.4	1000.9	899.7	827.4	780.8	755.1	713.3	705.3	687.6
32.5°	2557.6	1841.1	1121.4	894.8	790.4	726.1	695.6	669.9	658.7	620.1	610.5
35°	2678.1	1802.5	1013.7	796.8	700.4	650.6	624.9	616.9	580.0	562.3	546.2
37.5°	2755.2	1780.0	906.1	686.0	602.4	581.6	589.6	555.9	510.9	477.1	465.9
40°	2890.1	1772.0	784.0	594.4	535.0	530.2	555.9	491.6	409.7	380.7	364.7
42.5°	3084.5	1717.4	689.2	512.5	482.0	502.8	507.7	409.7	363.1	339.0	327.7
45°	3270.9	1728.6	596.0	424.1	419.3	449.8	438.6	347.0	319.7	302.0	311.7
47.5°	3629.1	1784.8	504.4	353.4	377.5	406.5	340.6	310.1	284.4	271.5	273.1
50°	4183.4	1839.5	424.1	322.9	356.6	367.9	292.4	281.1	279.5	253.8	252.2
52.5°	4515.9	1818.6	409.7	361.5	382.4	367.9	318.1	310.1	297.2	286.0	273.1
55°	5044.5	1879.6	440.2	422.5	433.8	353.4	356.6	353.4	343.8	314.9	322.9
57.5°	5465.4	1919.8	480.4	472.3	465.9	367.9	372.7	374.3	367.9	355.0	366.3
60°	6043.7	2000.1	522.1	523.7	525.3	400.0	408.1	417.7	416.1	411.3	414.5
62.5°	6398.8	1963.2	568.7	594.4	586.4	465.9	464.3	470.7	470.7	478.7	483.6
65°	6345.8	1826.6	592.8	657.1	615.3	514.1	514.1	517.3	518.9	535.0	536.6
67°	6027.7	1582.4	580.0	666.7	615.3	533.4	533.4	536.6	525.3	567.1	554.3
67.5°	5879.9	1510.1	568.7	658.7	610.5	531.8	531.8	533.4	523.7	563.9	551.0
70°	5113.6	1121.4	490.0	583.2	565.5	517.3	517.3	507.7	499.6	552.6	541.4
72.5°	4364.9	814.5	393.6	496.4	510.9	498.0	501.2	477.1	454.6	491.6	482.0
75°	3343.2	599.2	306.8	382.4	432.2	465.9	486.8	425.7	396.8	406.5	388.8
77.5°	1865.2	390.4	242.6	282.7	329.3	433.8	467.5	384.0	324.5	313.3	313.3
80°	633.0	228.1	178.3	210.5	226.5	384.0	437.0	311.7	255.4	244.2	236.2
82.5°	239.4	139.8	122.1	144.6	144.6	303.6	356.6	239.4	192.8	249.0	253.8
85°	109.2	83.5	80.3	83.5	83.5	186.4	252.2	155.8	173.5	149.4	131.7
87.5°	43.4	40.2	37.0	35.3	28.9	32.1	86.8	41.8	78.7	20.9	19.3
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)