

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: P476557

Luminaire Tested: **IFLD-S-SA3A-735-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476557
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

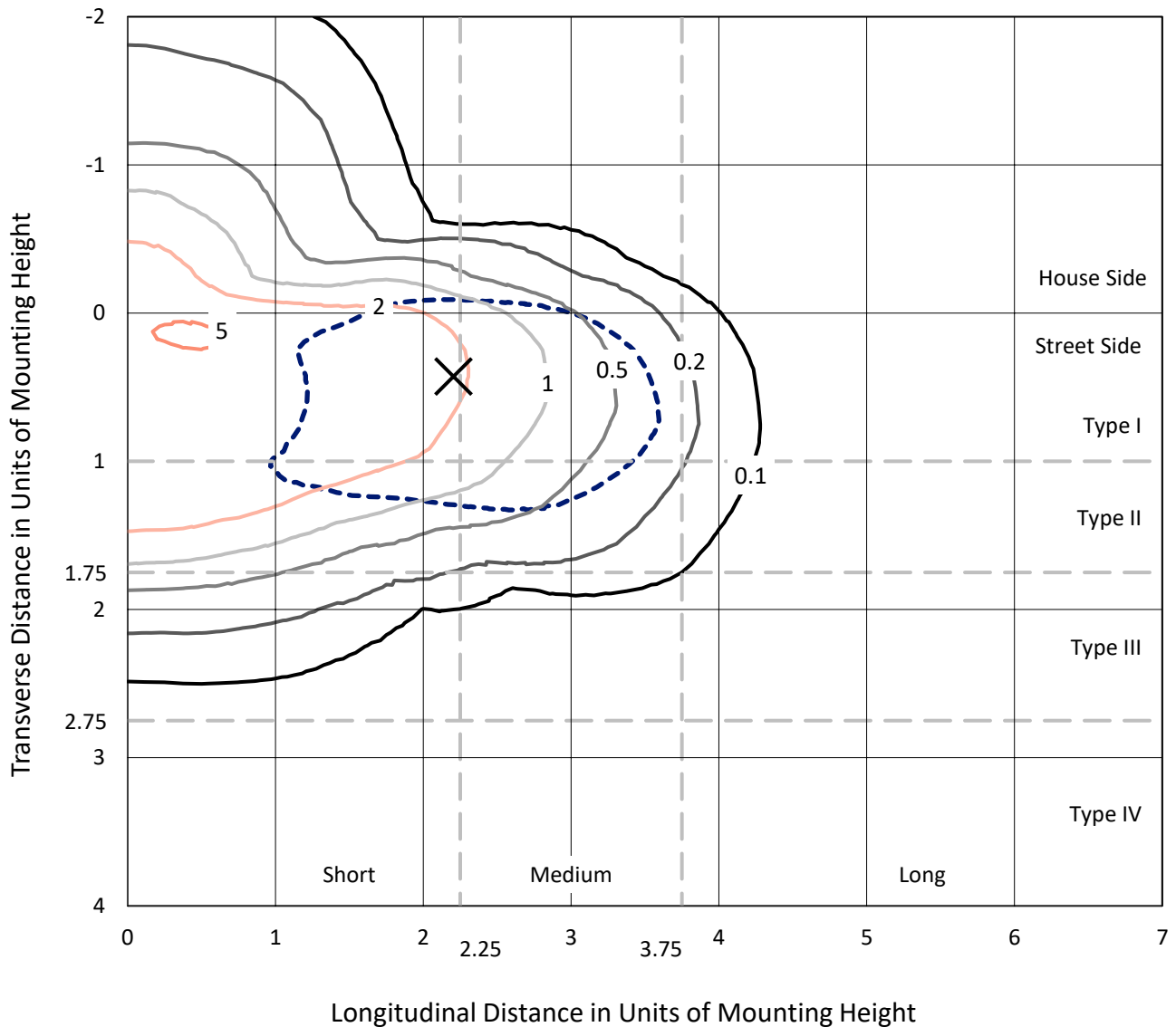
Lumens per Lamp: N/A
Luminaire Lumens: 13553.6 lumens
Efficiency: N/A
Efficacy: 143.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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: P476557
 CATALOG NUMBER: IFLD-S-SA3A-735-U-T2

Iso-Footcandle Lines of Horizontal Illumination

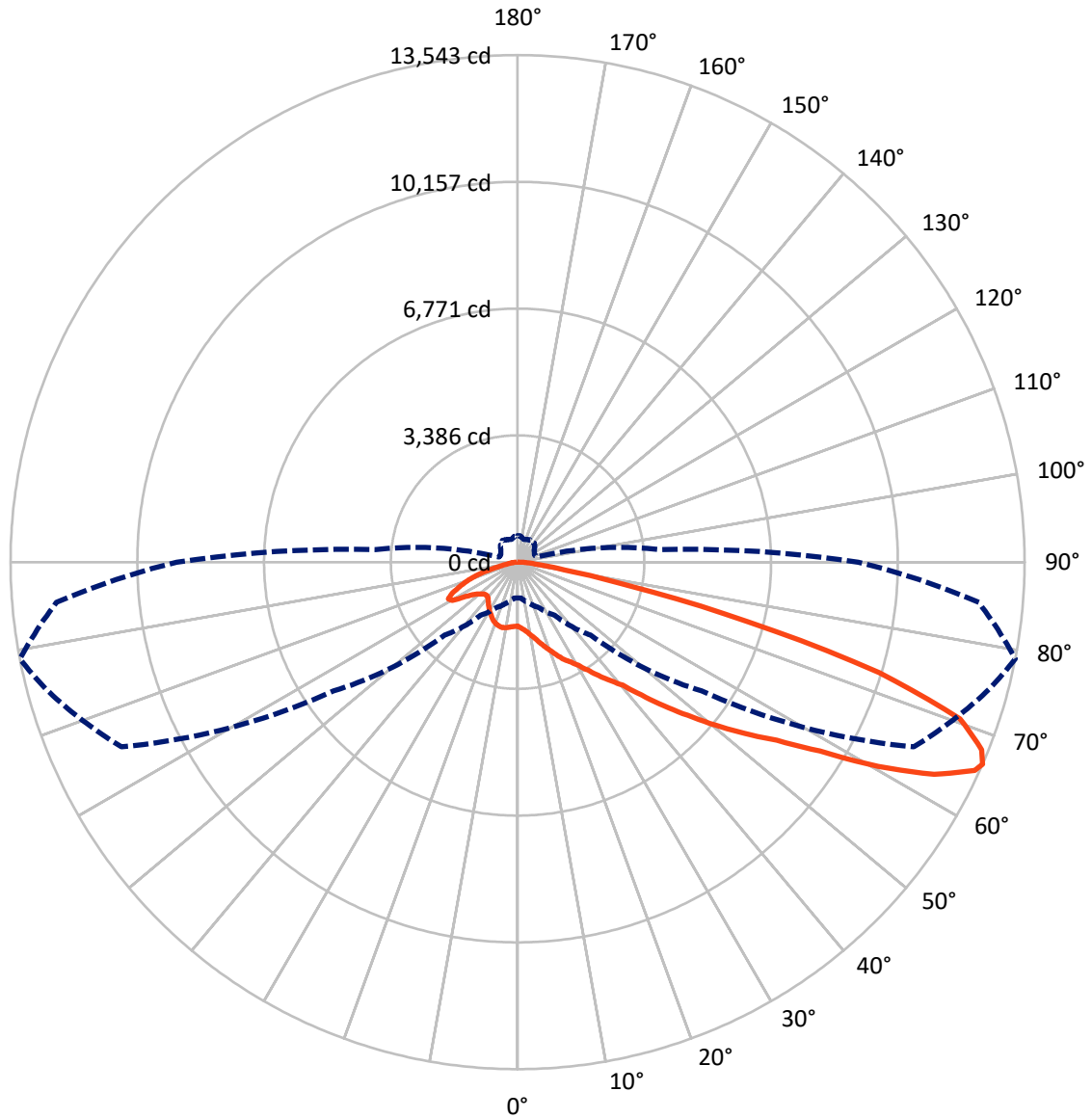
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type II - Short - N/A

REPORT NUMBER: P476557
CATALOG NUMBER: IFLD-S-SA3A-735-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P476557

CATALOG NUMBER: IFLD-S-SA3A-735-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2737.0	0.0	2737.0
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	10816.7	0.0	10816.7
	% Fixture	79.8	0.0	79.8
Total	Lumens	13553.6	0.0	13553.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.3	1.2
10°-20°	519.7	3.8
20°-30°	892.0	6.6
30°-40°	1378.0	10.2
40°-50°	2207.2	16.3
50°-60°	3295.5	24.3
60°-70°	3386.1	25.0
70°-80°	1501.0	11.1
80°-90°	205.9	1.5
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°	13553.6	100.0
0°-180°	13553.6	100.0

Coefficient of Utilization



REPORT NUMBER: P476557

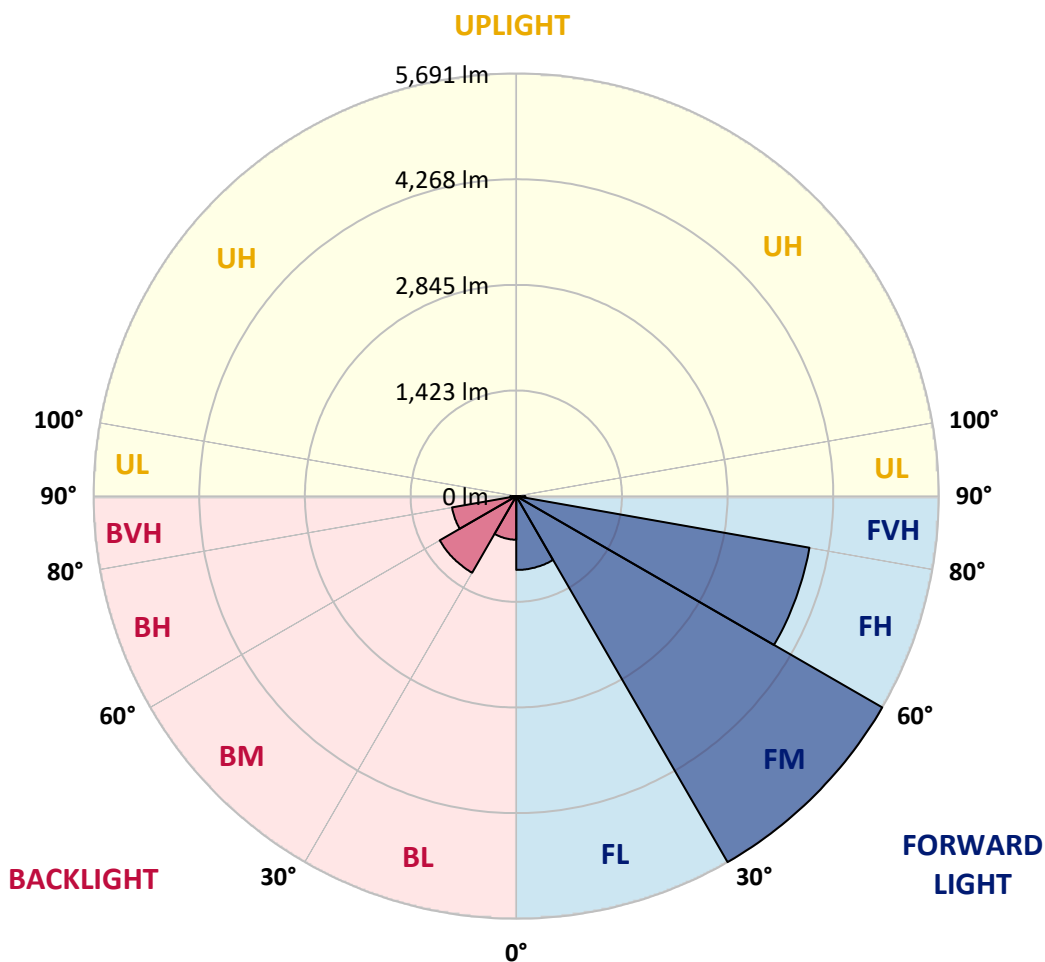
CATALOG NUMBER: IFLD-S-SA3A-735-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	993.6	7.3			
FM (30°-60°)	5690.7	42.0			
FH (60°-80°)	4008.9	29.6			G2/5000
FVH (80°-90°)	123.5	0.9			G2/225
BL (0°-30°)	586.4	4.3	B2/1000		
BM (30°-60°)	1189.9	8.8	B2/2500		
BH (60°-80°)	878.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	82.4	0.6			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 Short





REPORT NUMBER: P476557

CATALOG NUMBER: IFLD-S-SA3A-735-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5
2.5°	1820.3	1821.8	1821.8	1815.8	1817.3	1821.8	1805.4	1769.6	1769.6	1763.6	1753.2
5°	1932.1	1924.6	1914.2	1915.7	1909.7	1909.7	1891.8	1857.6	1827.7	1815.8	1784.5
7.5°	1947.0	1954.5	1953.0	1970.9	1979.8	1979.8	1988.7	1960.4	1915.7	1887.4	1856.1
10°	1976.8	1957.4	1955.9	1997.7	2011.1	2042.4	2078.2	2063.3	2026.0	1985.8	1944.0
12.5°	1994.7	2006.6	2006.6	2027.5	2058.8	2105.0	2167.6	2196.0	2137.8	2096.1	2032.0
15°	2021.5	2005.1	2052.8	2070.7	2130.4	2163.2	2252.6	2325.7	2286.9	2236.2	2134.8
17.5°	2033.5	2023.0	2049.9	2082.7	2184.0	2233.2	2342.1	2443.4	2410.6	2377.8	2273.5
20°	2094.6	2093.1	2105.0	2131.9	2204.9	2301.8	2437.5	2577.6	2589.5	2529.9	2388.3
22.5°	2243.7	2224.3	2224.3	2213.9	2245.2	2345.0	2528.4	2722.2	2775.9	2705.8	2518.0
25°	2380.8	2407.7	2391.3	2343.6	2331.6	2383.8	2594.0	2875.8	2947.3	2881.7	2693.9
27.5°	2556.7	2565.7	2594.0	2529.9	2447.9	2464.3	2665.6	2962.2	3109.8	3021.9	2793.8
30°	2810.2	2793.8	2787.8	2716.3	2608.9	2586.6	2747.6	3089.0	3323.0	3199.3	2911.6
32.5°	2981.6	3021.9	3020.4	2922.0	2792.3	2743.1	2848.9	3208.2	3551.1	3436.3	3129.2
35°	3321.5	3363.3	3330.5	3185.9	3033.8	2935.4	2995.0	3363.3	3812.0	3722.6	3314.1
37.5°	3755.4	3853.7	3783.7	3516.8	3302.1	3194.8	3197.8	3531.7	4078.9	4005.8	3512.4
40°	4055.0	4187.7	4090.8	3840.3	3612.2	3510.9	3470.6	3731.5	4397.9	4320.4	3822.4
42.5°	4426.2	4536.5	4485.8	4238.4	3971.5	3885.1	3804.5	4065.4	4885.4	4849.6	4220.5
45°	4831.7	4883.9	4867.5	4711.0	4414.3	4384.5	4207.1	4505.2	5459.3	5474.3	4718.4
47.5°	5208.9	5237.2	5268.5	5155.2	4970.4	4995.7	4670.7	4976.3	6016.9	6115.3	5273.0
50°	5305.8	5402.7	5475.7	5551.8	5592.0	5763.5	5182.1	5554.8	6658.0	6848.8	5890.2
52.5°	5207.4	5199.9	5422.1	5660.6	6063.1	6422.4	5878.3	6273.3	7224.5	7601.6	6455.2
55°	4760.2	4745.3	5103.0	5419.1	6204.8	6789.2	6872.6	7230.4	7908.8	8399.2	7220.0
57.5°	3977.5	3885.1	4275.6	4794.4	5897.6	6829.4	7871.5	8651.2	8961.3	9520.3	8387.3
60°	2673.0	2634.3	3008.5	3627.1	4788.5	6258.4	8469.3	10429.7	10444.6	11073.7	10198.6
62.5°	1645.9	1653.3	1893.3	2357.0	3352.8	4961.4	8211.4	11850.5	11853.4	12484.0	11689.4
65°	1076.4	1080.8	1274.6	1531.1	2094.6	3364.8	6790.6	11962.3	12832.9	13418.8	12372.2
66°	958.6	960.1	1127.1	1335.8	1735.3	2753.5	5997.5	11671.6	13053.5	13542.5	12363.3
67.5°	808.0	827.4	961.6	1122.6	1353.7	1978.3	4758.7	10830.7	12940.2	13369.6	12083.0
70°	632.1	642.5	748.4	912.4	1015.2	1144.9	2828.1	8828.6	11844.5	12540.7	11063.3
72.5°	506.9	515.8	596.3	740.9	824.4	754.4	1540.0	6406.0	9356.3	10098.8	8701.9
75°	427.9	429.4	468.1	582.9	678.3	566.5	819.9	4111.7	6003.5	6349.4	5331.1
77.5°	345.9	351.8	378.7	444.3	545.6	445.8	489.0	2303.3	3014.4	3039.8	2464.3
80°	281.8	284.7	301.1	323.5	415.9	329.5	331.0	1124.1	1292.5	1262.7	1001.8
82.5°	222.1	225.1	244.5	240.0	305.6	235.5	205.7	541.2	594.8	582.9	460.7
85°	125.2	125.2	192.3	192.3	193.8	149.1	125.2	254.9	314.6	293.7	216.2
87.5°	40.3	41.7	58.1	61.1	96.9	67.1	61.1	95.4	149.1	131.2	77.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476557
 CATALOG NUMBER: IFLD-S-SA3A-735-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5	1711.5
2.5°	1747.2	1723.4	1712.9	1678.7	1669.7	1647.3	1636.9	1623.5	1619.0	1599.6	1617.5
5°	1760.6	1753.2	1711.5	1668.2	1635.4	1620.5	1598.1	1568.3	1565.4	1538.5	1535.5
7.5°	1817.3	1792.0	1718.9	1672.7	1607.1	1569.8	1520.6	1505.7	1486.3	1477.4	1496.8
10°	1905.3	1841.2	1732.3	1616.0	1535.5	1490.8	1455.0	1444.6	1446.1	1440.1	1431.2
12.5°	1967.9	1906.7	1710.0	1568.3	1464.0	1420.7	1417.8	1428.2	1444.6	1437.1	1447.6
15°	2057.3	1942.5	1693.6	1489.3	1405.8	1393.9	1392.4	1423.7	1422.2	1422.2	1420.7
17.5°	2140.8	1978.3	1633.9	1420.7	1344.7	1353.7	1364.1	1362.6	1377.5	1383.5	1393.9
20°	2246.7	2020.0	1550.4	1352.2	1298.5	1295.5	1294.0	1295.5	1310.4	1319.4	1311.9
22.5°	2339.1	2029.0	1480.4	1286.6	1243.3	1231.4	1212.0	1231.4	1224.0	1226.9	1235.9
25°	2419.6	2030.5	1380.5	1237.4	1188.2	1161.3	1146.4	1144.9	1131.5	1130.0	1130.0
27.5°	2486.7	1979.8	1292.5	1168.8	1122.6	1097.2	1095.7	1079.3	1045.1	1022.7	1025.7
30°	2538.9	1941.0	1231.4	1109.2	1064.4	1060.0	1046.5	1009.3	964.6	936.2	936.2
32.5°	2631.3	1863.5	1147.9	1048.0	1025.7	1019.7	988.4	955.6	913.9	887.0	882.6
35°	2699.9	1792.0	1092.8	995.9	985.4	973.5	946.7	910.9	899.0	893.0	897.5
37.5°	2777.4	1711.5	1025.7	951.1	961.6	939.2	907.9	891.5	933.2	922.8	927.3
40°	2901.1	1654.8	960.1	924.3	934.7	909.4	869.1	863.2	915.4	878.1	869.1
42.5°	3127.7	1653.3	919.8	884.1	891.5	872.1	836.3	833.4	854.2	809.5	796.1
45°	3409.5	1705.5	890.0	854.2	848.3	845.3	833.4	819.9	802.1	743.9	729.0
47.5°	3746.4	1790.5	884.1	809.5	817.0	842.3	827.4	793.1	746.9	709.6	702.2
50°	4154.9	1966.4	869.1	776.7	790.1	830.4	818.5	770.7	729.0	705.2	700.7
52.5°	4606.6	2188.5	849.8	726.0	755.8	819.9	825.9	781.2	720.1	699.2	696.2
55°	5138.8	2516.5	827.4	670.9	715.6	809.5	825.9	751.4	708.1	708.1	705.2
57.5°	6189.8	3106.8	781.2	620.2	679.8	790.1	802.1	752.9	709.6	709.6	703.7
60°	7731.3	4028.2	693.2	581.4	645.5	763.3	784.2	730.5	693.2	702.2	700.7
62.5°	8937.4	4308.4	618.7	544.1	611.2	714.1	760.3	706.6	673.8	706.6	709.6
65°	9195.3	4025.2	542.7	503.9	563.5	666.4	726.0	672.4	645.5	709.6	712.6
66°	9102.9	3804.5	515.8	492.0	542.7	642.5	705.2	660.4	630.6	706.6	708.1
67.5°	8691.4	3473.6	486.0	466.6	514.3	608.3	681.3	644.0	606.8	697.7	684.3
70°	7796.9	2945.8	435.3	421.9	474.1	551.6	626.1	602.3	569.5	642.5	618.7
72.5°	6005.0	2354.0	381.6	383.1	427.9	493.5	571.0	554.6	526.3	563.5	548.6
75°	3657.0	1504.2	332.5	335.4	372.7	438.3	518.8	506.9	472.6	493.5	486.0
77.5°	1620.5	745.4	280.3	286.2	316.1	386.1	451.7	432.3	396.6	401.0	398.0
80°	629.1	353.3	228.1	235.5	254.9	308.6	374.2	356.3	325.0	319.0	316.1
82.5°	302.6	196.8	175.9	178.9	186.4	246.0	322.0	299.7	257.9	231.1	231.1
85°	152.1	122.2	123.7	113.3	123.7	167.0	217.7	181.9	150.6	134.2	137.2
87.5°	61.1	61.1	61.1	52.2	55.2	79.0	101.4	68.6	62.6	37.3	37.3
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)