

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: P476946

Luminaire Tested: **IFLD-S-SA2E-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-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

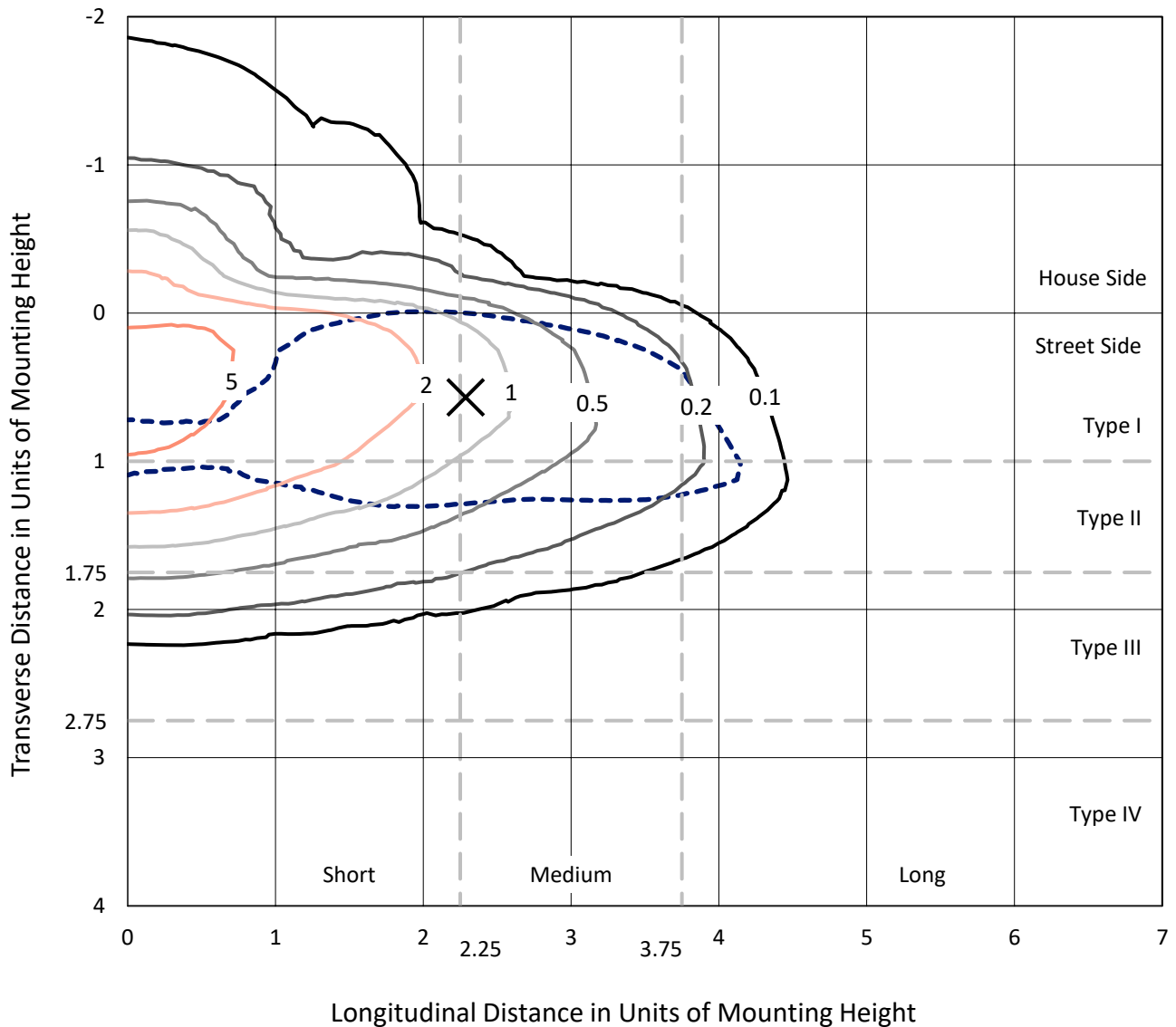
Lumens per Lamp: N/A
Luminaire Lumens: 17951.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

REPORT NUMBER: P476946
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

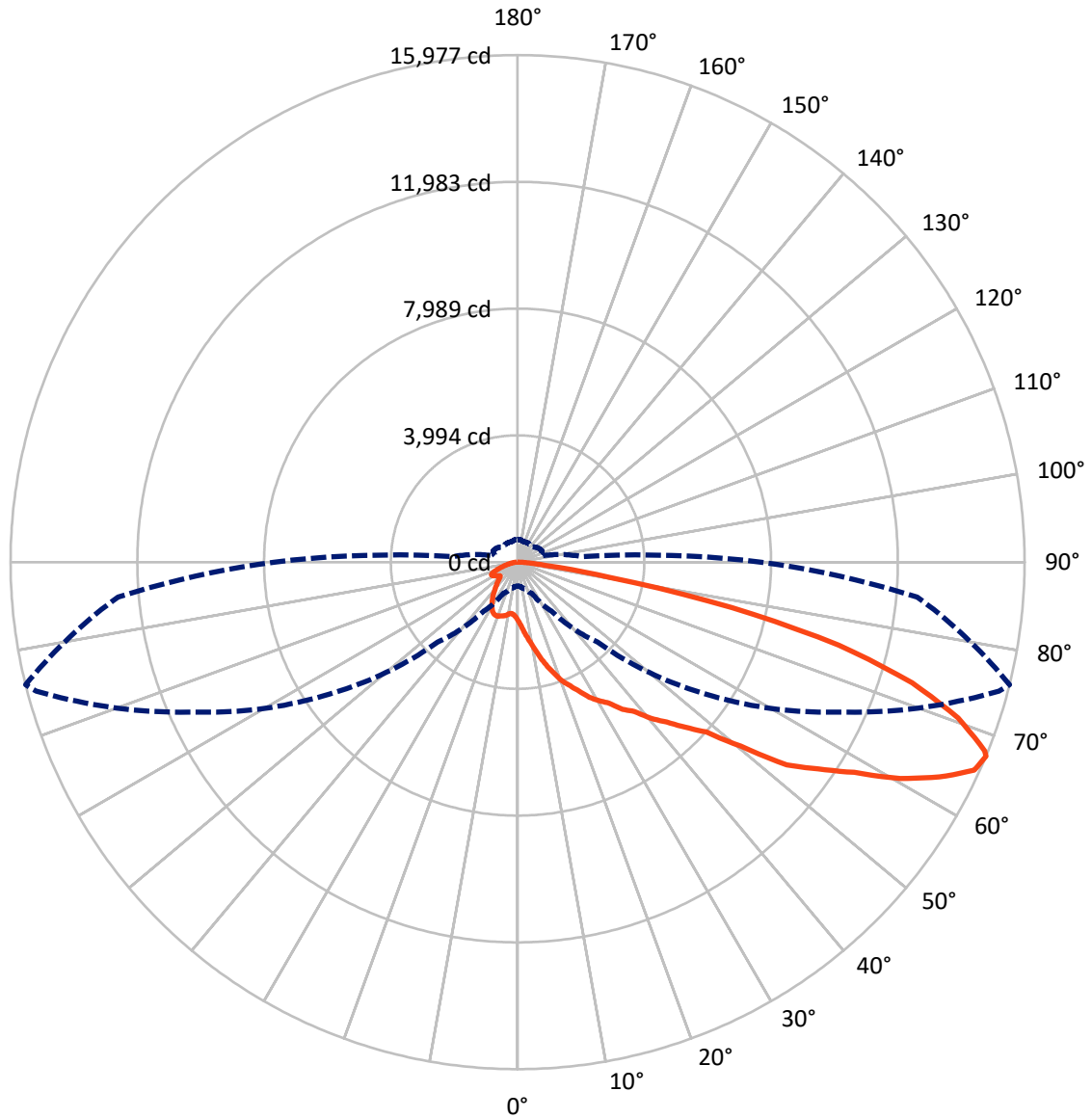
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P476946
CATALOG NUMBER: IFLD-S-SA2E-735-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

REPORT NUMBER: P476946
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2553.9	0.0	2553.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	15397.9	0.0	15397.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	17951.7	0.0	17951.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.8	1.2
10°-20°	798.1	4.4
20°-30°	1483.8	8.3
30°-40°	2352.1	13.1
40°-50°	3253.2	18.1
50°-60°	4001.7	22.3
60°-70°	3723.8	20.7
70°-80°	1868.6	10.4
80°-90°	257.6	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°	17951.7	100.0
0°-180°	17951.7	100.0

Coefficient of Utilization



REPORT NUMBER: P476946

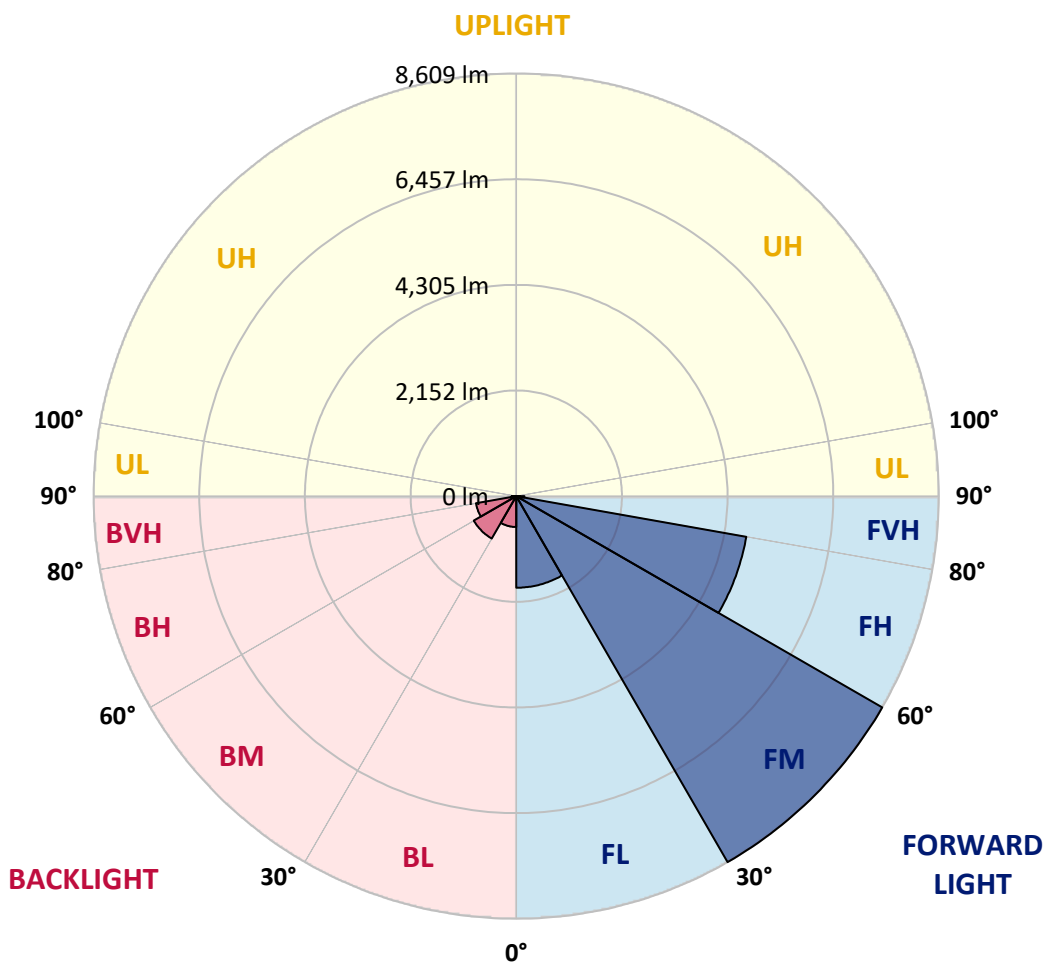
CATALOG NUMBER: IFLD-S-SA2E-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1865.8	10.4			
FM (30°-60°)	8609.1	48.0			
FH (60°-80°)	4758.9	26.5			G2/5000
FVH (80°-90°)	164.2	0.9			G2/225
BL (0°-30°)	628.9	3.5	B2/1000		
BM (30°-60°)	998.0	5.6	B1/1000		
BH (60°-80°)	833.5	4.6	B2/1000		G2/1000
BVH (80°-90°)	93.5	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: P476946
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1
2.5°	2549.0	2518.3	2487.6	2422.2	2399.7	2338.3	2225.8	2101.0	1998.7	1984.4	1912.8
5°	3162.7	3117.7	3107.5	3070.7	2954.1	2835.4	2651.3	2450.8	2201.2	2219.6	1974.2
7.5°	3623.0	3596.4	3541.2	3506.4	3436.9	3279.3	3089.1	2823.1	2506.0	2444.7	2111.2
10°	3970.8	3934.0	3931.9	3901.2	3864.4	3702.8	3557.6	3199.6	2792.5	2708.6	2279.0
12.5°	4146.7	4140.6	4249.0	4249.0	4234.7	4167.2	3917.6	3590.3	3064.5	3035.9	2473.3
15°	4337.0	4285.9	4380.0	4451.6	4488.4	4523.2	4316.5	3970.8	3412.3	3357.1	2682.0
17.5°	4337.0	4332.9	4427.0	4545.7	4738.0	4783.0	4670.5	4320.6	3700.8	3659.9	2911.1
20°	4263.3	4322.7	4388.1	4547.7	4756.4	4938.4	4971.2	4678.6	4019.9	3987.2	3170.9
22.5°	4607.0	4549.8	4617.3	4678.6	4840.2	5116.4	5206.4	4993.7	4355.4	4230.6	3406.2
25°	5183.9	5145.1	5096.0	5006.0	5073.5	5194.2	5331.2	5226.9	4641.8	4502.7	3633.3
27.5°	5746.5	5748.6	5642.2	5445.8	5300.5	5325.1	5486.7	5431.5	4883.2	4821.8	3788.7
30°	6546.4	6497.3	6378.7	6112.7	5828.3	5595.1	5568.5	5621.7	5190.1	5071.4	4011.7
32.5°	7145.8	7156.0	6988.3	6605.7	6217.0	6026.8	5793.6	5816.1	5384.4	5296.5	4189.7
35°	7630.7	7618.4	7499.7	7182.6	6722.3	6493.2	6178.2	6049.3	5836.5	5697.4	4461.8
37.5°	8154.4	8054.1	7861.8	7503.8	7209.2	6892.1	6585.3	6294.8	6137.3	5969.5	4695.0
40°	8365.1	8365.1	8107.3	7943.7	7593.8	7354.5	7156.0	6618.0	6503.4	6470.7	4993.7
42.5°	8215.7	8307.8	8201.4	8015.3	7872.1	7569.3	7516.1	6953.5	6955.6	6890.1	5351.7
45°	8201.4	8074.6	7986.6	8033.7	7966.2	7949.8	8084.8	7417.9	7430.2	7422.0	5832.4
47.5°	7790.2	7732.9	7863.9	7941.6	7996.8	8250.5	8639.2	7972.3	8060.3	7998.9	6386.8
50°	7381.1	7370.8	7452.7	7735.0	7974.3	8391.7	9167.0	8827.4	9115.9	9111.8	7391.3
52.5°	6260.0	6368.4	6689.6	7287.0	7878.2	8584.0	9565.9	9919.9	10470.2	10619.5	8223.9
55°	5188.0	5130.7	5605.4	6472.8	7458.8	8659.7	10011.9	10576.5	11386.7	11495.1	9079.0
57.5°	4036.3	4142.6	4517.0	5349.6	6591.4	8285.3	10339.2	11225.0	12421.8	12505.7	10071.2
60°	3011.3	3025.7	3436.9	4107.9	5437.6	7440.4	10445.6	11889.9	13608.3	13847.7	11110.5
62.5°	1894.4	1980.3	2293.3	2954.1	4093.6	6258.0	9969.0	12292.9	14852.2	14915.6	12157.9
65°	1020.8	1076.1	1311.3	1726.6	2860.0	4733.9	8704.7	12051.5	15437.2	15813.7	12624.3
67°	754.9	765.1	873.5	1102.7	1912.8	3563.7	7258.3	11178.0	15703.2	15977.3	12642.7
67.5°	707.8	722.2	808.1	990.1	1695.9	3281.4	6879.9	10867.0	15584.5	15879.1	12499.5
70°	605.5	609.6	630.1	681.2	951.3	1974.2	4684.8	8905.2	14445.1	14727.4	11495.1
72.5°	538.0	542.1	550.3	560.5	644.4	1141.5	2849.7	6853.3	12554.8	13004.8	9917.8
75°	472.6	486.9	491.0	482.8	548.3	742.6	1515.9	5036.6	10241.0	10459.9	7712.5
77.5°	401.0	407.1	415.3	423.5	488.9	554.4	728.3	3400.0	7029.2	6896.2	4171.3
80°	337.5	339.6	345.7	351.9	423.5	423.5	413.2	1837.1	3070.7	2935.7	1409.5
82.5°	241.4	255.7	270.0	286.4	351.9	284.4	270.0	818.3	971.7	924.7	476.7
85°	94.1	114.6	178.0	196.4	223.0	153.4	180.0	353.9	405.1	401.0	178.0
87.5°	16.4	18.4	49.1	75.7	81.8	53.2	85.9	126.8	151.4	163.7	65.5
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: P476946
 CATALOG NUMBER: IFLD-S-SA2E-735-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1	1837.1
2.5°	1853.5	1790.0	1714.3	1638.6	1589.5	1511.8	1505.7	1458.6	1452.5	1436.1	1444.3
5°	1867.8	1792.1	1638.6	1517.9	1462.7	1417.7	1427.9	1407.5	1401.3	1391.1	1374.7
7.5°	1980.3	1830.9	1601.8	1497.5	1456.6	1436.1	1436.1	1411.6	1393.2	1405.4	1417.7
10°	2053.9	1849.4	1630.5	1526.1	1493.4	1448.4	1464.8	1434.1	1444.3	1419.8	1419.8
12.5°	2172.6	1953.7	1689.8	1569.1	1515.9	1475.0	1491.4	1456.6	1448.4	1450.4	1444.3
15°	2332.2	2023.2	1716.4	1593.6	1556.8	1505.7	1493.4	1462.7	1432.0	1421.8	1434.1
17.5°	2481.5	2109.2	1734.8	1608.0	1548.6	1491.4	1477.0	1438.2	1427.9	1397.2	1372.7
20°	2659.5	2211.5	1759.3	1620.2	1517.9	1460.7	1423.8	1385.0	1350.2	1331.8	1340.0
22.5°	2778.1	2264.6	1771.6	1595.7	1472.9	1419.8	1342.0	1315.4	1266.3	1245.9	1229.5
25°	2972.5	2330.1	1740.9	1528.2	1393.2	1307.2	1237.7	1200.9	1166.1	1139.5	1131.3
27.5°	3021.6	2379.2	1669.3	1413.6	1266.3	1176.3	1117.0	1072.0	1049.5	1008.6	1000.4
30°	3164.8	2330.1	1563.0	1274.5	1145.6	1053.6	994.2	961.5	908.3	898.1	875.6
32.5°	3256.8	2344.4	1427.9	1139.5	1006.5	924.7	885.8	853.1	838.8	789.7	777.4
35°	3410.3	2295.3	1290.9	1014.7	891.9	828.5	795.8	785.6	738.5	716.0	695.6
37.5°	3508.5	2266.7	1153.8	873.5	767.2	740.6	750.8	707.8	650.5	607.6	593.3
40°	3680.3	2256.5	998.3	756.9	681.2	675.1	707.8	626.0	521.7	484.8	464.4
42.5°	3927.8	2186.9	877.6	652.6	613.7	640.3	646.5	521.7	462.3	431.7	417.3
45°	4165.2	2201.2	759.0	540.1	533.9	572.8	558.5	441.9	407.1	384.6	396.9
47.5°	4621.4	2272.8	642.4	450.1	480.8	517.6	433.7	394.8	362.1	345.7	347.8
50°	5327.1	2342.4	540.1	411.2	454.2	468.5	372.3	358.0	356.0	323.2	321.2
52.5°	5750.6	2315.8	521.7	460.3	486.9	468.5	405.1	394.8	378.5	364.1	347.8
55°	6423.7	2393.5	560.5	538.0	552.4	450.1	454.2	450.1	437.8	401.0	411.2
57.5°	6959.6	2444.7	611.7	601.5	593.3	468.5	474.6	476.7	468.5	452.1	466.4
60°	7696.1	2547.0	664.9	666.9	669.0	509.4	519.6	531.9	529.8	523.7	527.8
62.5°	8148.2	2499.9	724.2	756.9	746.7	593.3	591.2	599.4	599.4	609.6	615.8
65°	8080.7	2326.0	754.9	836.7	783.5	654.6	654.6	658.7	660.8	681.2	683.3
67°	7675.7	2015.1	738.5	849.0	783.5	679.2	679.2	683.3	669.0	722.2	705.8
67.5°	7487.5	1923.0	724.2	838.8	777.4	677.1	677.1	679.2	666.9	718.1	701.7
70°	6511.6	1427.9	624.0	742.6	720.1	658.7	658.7	646.5	636.2	703.7	689.4
72.5°	5558.3	1037.2	501.2	632.1	650.5	634.2	638.3	607.6	578.9	626.0	613.7
75°	4257.2	763.1	390.7	486.9	550.3	593.3	619.9	542.1	505.3	517.6	495.1
77.5°	2375.1	497.1	308.9	360.1	419.4	552.4	595.3	488.9	413.2	398.9	398.9
80°	806.0	290.5	227.1	268.0	288.5	488.9	556.4	396.9	325.3	311.0	300.7
82.5°	304.8	178.0	155.5	184.1	184.1	386.6	454.2	304.8	245.5	317.1	323.2
85°	139.1	106.4	102.3	106.4	106.4	237.3	321.2	198.4	220.9	190.3	167.8
87.5°	55.2	51.1	47.1	45.0	36.8	40.9	110.5	53.2	100.2	26.6	24.5
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)