

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: P476965

Luminaire Tested: **IFLD-S-SA6D-735-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476965
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-735-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

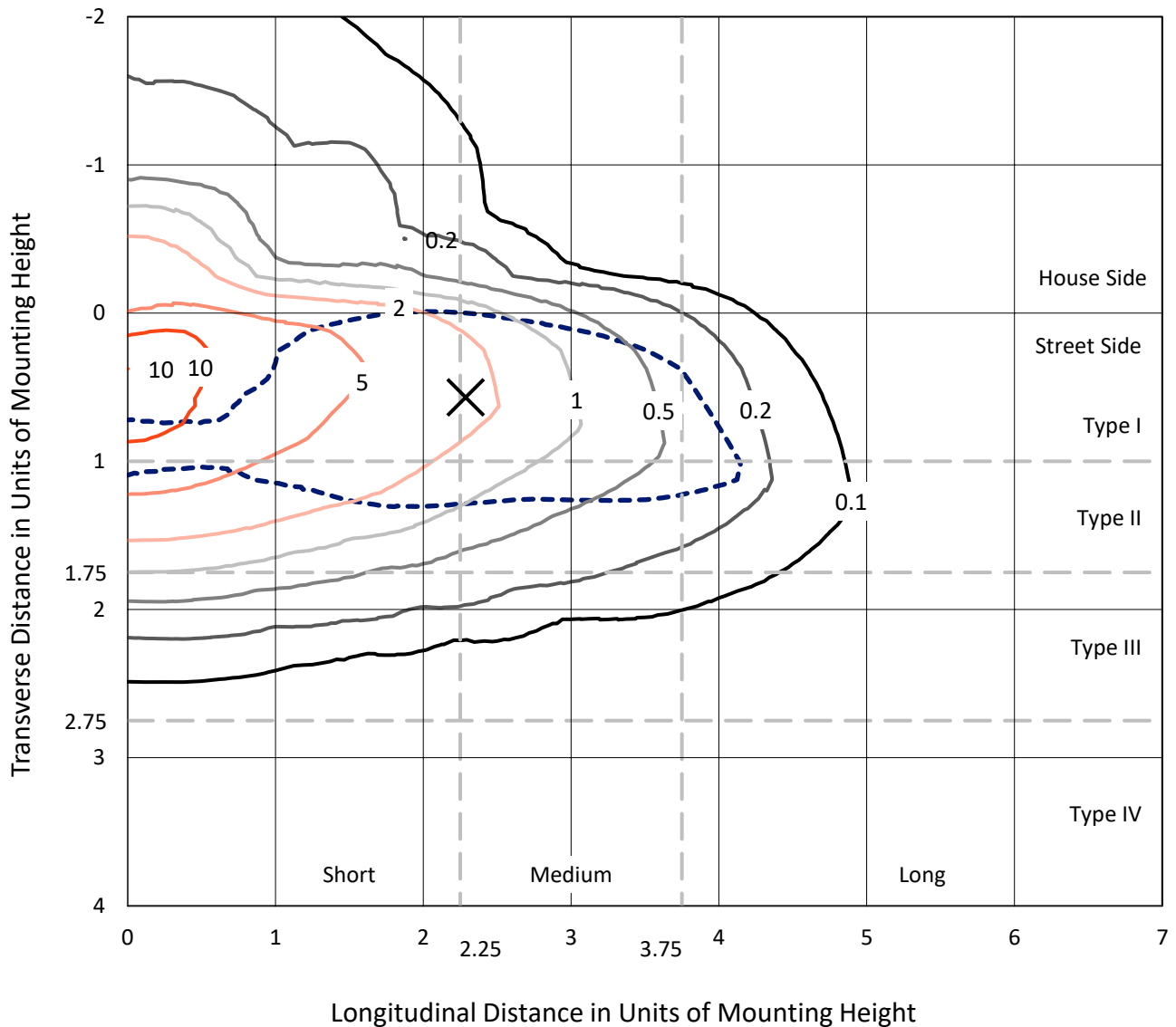
Lumens per Lamp: N/A
Luminaire Lumens: 45348.9 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 368.2
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

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 CATALOG NUMBER: IFLD-S-SA6D-735-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

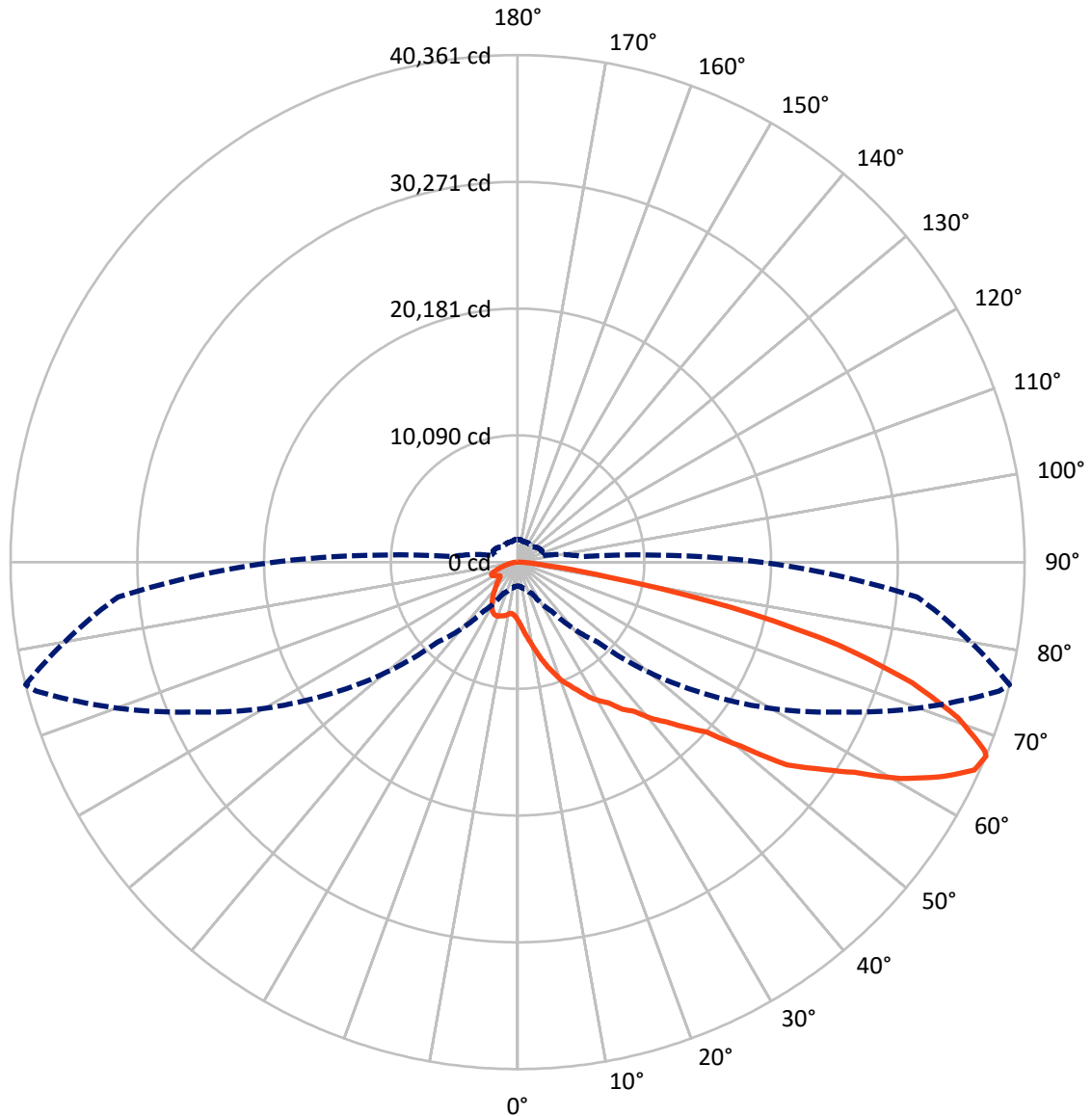
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12 fc
 Type II - Medium - N/A

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CATALOG NUMBER: IFLD-S-SA6D-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	6451.5	0.0	6451.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	38897.4	0.0	38897.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	45348.9	0.0	45348.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.6	1.2
10°-20°	2016.1	4.4
20°-30°	3748.3	8.3
30°-40°	5941.9	13.1
40°-50°	8218.2	18.1
50°-60°	10108.9	22.3
60°-70°	9406.8	20.7
70°-80°	4720.3	10.4
80°-90°	650.9	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°	45348.9	100.0
0°-180°	45348.9	100.0

Coefficient of Utilization

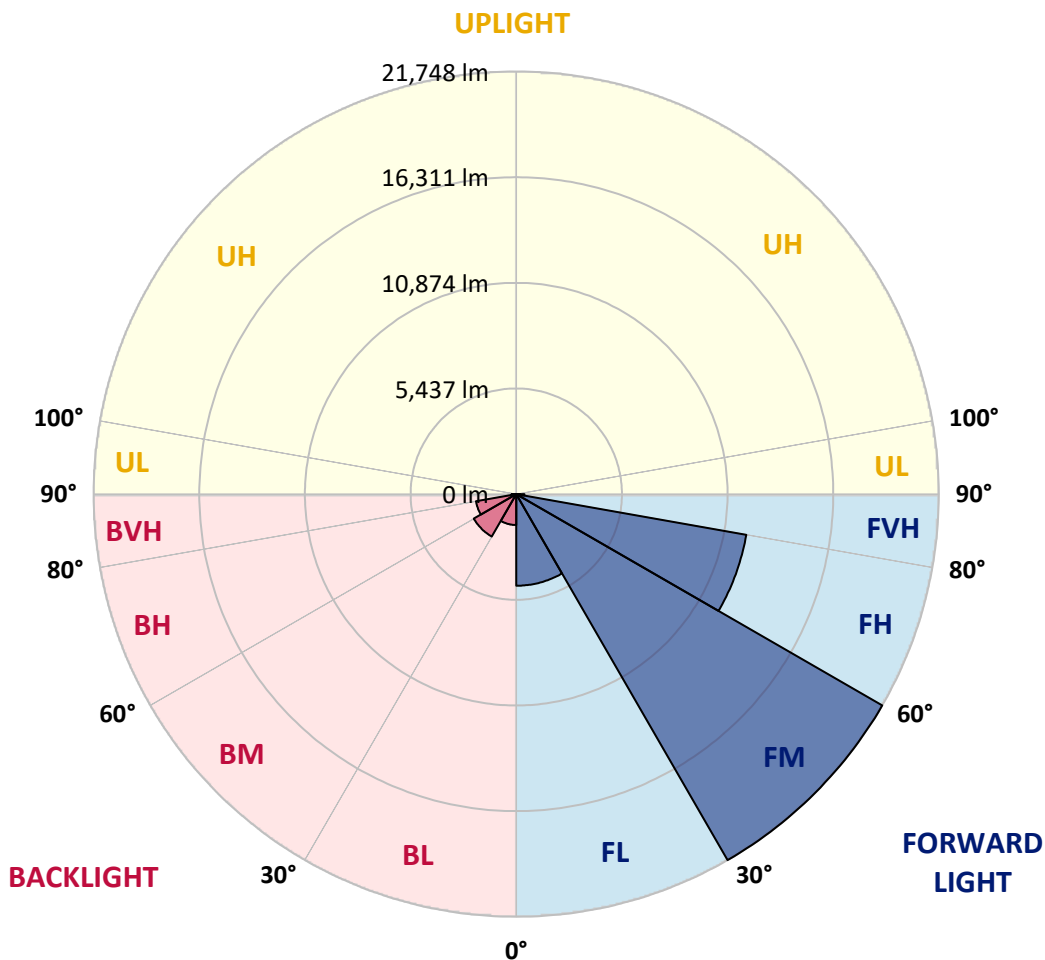


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 CATALOG NUMBER: IFLD-S-SA6D-735-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4713.3	10.4			
FM (30°-60°)	21747.9	48.0			
FH (60°-80°)	12021.6	26.5			G5
FVH (80°-90°)	414.7	0.9			G3/500
BL (0°-30°)	1588.7	3.5	B3/2500		
BM (30°-60°)	2521.1	5.6	B3/5000		
BH (60°-80°)	2105.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	236.2	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Medium





REPORT NUMBER: P476965

CATALOG NUMBER: IFLD-S-SA6D-735-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8
2.5°	6439.2	6361.7	6284.2	6118.8	6061.9	5906.9	5622.7	5307.4	5049.0	5012.9	4832.0
5°	7989.6	7875.9	7850.0	7757.0	7462.4	7162.7	6697.6	6191.1	5560.7	5607.2	4987.0
7.5°	9152.3	9085.2	8945.6	8857.8	8682.1	8284.1	7803.5	7131.7	6330.7	6175.6	5333.3
10°	10030.9	9937.9	9932.7	9855.2	9762.1	9353.9	8987.0	8082.6	7054.2	6842.3	5757.0
12.5°	10475.3	10459.8	10733.7	10733.7	10697.5	10527.0	9896.5	9069.6	7741.5	7669.2	6248.0
15°	10955.9	10826.7	11064.5	11245.3	11338.4	11426.2	10904.2	10030.9	8620.0	8480.5	6775.1
17.5°	10955.9	10945.6	11183.3	11483.1	11968.8	12082.5	11798.3	10914.6	9348.7	9245.4	7353.9
20°	10769.9	10919.8	11085.1	11488.2	12015.3	12475.3	12558.0	11819.0	10154.9	10072.2	8010.2
22.5°	11638.1	11493.4	11663.9	11819.0	12227.2	12924.9	13152.3	12614.8	11002.4	10687.2	8604.5
25°	13095.4	12997.2	12873.2	12645.8	12816.4	13121.3	13467.5	13204.0	11725.9	11374.5	9178.2
27.5°	14516.6	14521.8	14253.0	13756.9	13390.0	13452.0	13860.3	13720.8	12335.8	12180.7	9570.9
30°	16537.3	16413.2	16113.5	15441.7	14723.3	14134.2	14067.0	14201.4	13110.9	12811.2	10134.2
32.5°	18051.4	18077.3	17653.5	16687.1	15705.2	15224.6	14635.5	14692.3	13601.9	13379.7	10583.8
35°	19276.2	19245.2	18945.5	18144.5	16981.7	16402.9	15607.0	15281.5	14744.0	14392.6	11271.2
37.5°	20599.2	20346.0	19860.2	18955.8	18211.6	17410.6	16635.4	15901.6	15503.7	15079.9	11860.3
40°	21131.5	21131.5	20480.4	20066.9	19183.2	18578.6	18077.3	16718.1	16428.7	16346.0	12614.8
42.5°	20754.3	20986.8	20718.1	20247.8	19886.0	19121.2	18986.8	17565.7	17570.8	17405.5	13519.2
45°	20718.1	20397.7	20175.4	20294.3	20123.8	20082.4	20423.5	18738.8	18769.8	18749.1	14733.7
47.5°	19679.3	19534.6	19865.4	20061.8	20201.3	20842.1	21824.0	20139.3	20361.5	20206.5	16134.2
50°	18645.8	18619.9	18826.6	19539.8	20144.4	21198.7	23157.3	22299.4	23028.1	23017.8	18671.6
52.5°	15813.7	16087.6	16899.0	18408.0	19901.5	21684.5	24165.1	25059.1	26449.3	26826.5	20774.9
55°	13105.8	12961.1	14160.0	16351.2	18842.1	21875.7	25291.7	26718.0	28764.5	29038.4	22935.1
57.5°	10196.2	10465.0	11410.7	13514.0	16650.9	20930.0	26118.5	28356.2	31379.4	31591.3	25441.5
60°	7607.1	7643.3	8682.1	10377.1	13736.3	18795.6	26387.3	30035.8	34376.8	34981.5	28066.8
62.5°	4785.5	5002.5	5793.2	7462.4	10340.9	15808.6	25183.1	31053.9	37518.9	37679.1	30712.8
65°	2578.8	2718.3	3312.6	4361.7	7224.7	11958.5	21989.4	30444.0	38996.9	39947.8	31891.1
67°	1907.0	1932.8	2206.7	2785.5	4832.0	9002.5	18335.7	28237.4	39668.7	40361.2	31937.6
67.5°	1788.1	1824.3	2041.3	2501.3	4284.2	8289.3	17379.6	27451.8	39369.0	40113.2	31575.8
70°	1529.7	1540.0	1591.7	1720.9	2403.1	4987.0	11834.5	22495.8	36490.5	37203.6	29038.4
72.5°	1359.2	1369.5	1390.2	1416.0	1627.9	2883.7	7198.9	17312.4	31715.3	32852.3	25053.9
75°	1193.8	1230.0	1240.3	1219.6	1385.0	1875.9	3829.4	12723.3	25870.5	26423.4	19482.9
77.5°	1012.9	1028.4	1049.1	1069.8	1235.1	1400.5	1839.8	8589.0	17756.9	17421.0	10537.3
80°	852.7	857.9	873.4	888.9	1069.8	1069.8	1043.9	4640.8	7757.0	7415.9	3560.7
82.5°	609.8	646.0	682.2	723.5	888.9	718.3	682.2	2067.2	2454.7	2335.9	1204.1
85°	237.7	289.4	449.6	496.1	563.3	387.6	454.8	894.0	1023.2	1012.9	449.6
87.5°	41.3	46.5	124.0	191.2	206.7	134.4	217.1	320.4	382.4	413.4	165.4
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°	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8	4640.8
2.5°	4682.1	4521.9	4330.7	4139.5	4015.5	3819.1	3803.6	3684.7	3669.2	3627.9	3648.5
5°	4718.3	4527.1	4139.5	3834.6	3695.0	3581.3	3607.2	3555.5	3540.0	3514.2	3472.8
7.5°	5002.5	4625.3	4046.5	3782.9	3679.5	3627.9	3627.9	3565.8	3519.3	3550.3	3581.3
10°	5188.6	4671.8	4118.8	3855.2	3772.6	3658.9	3700.2	3622.7	3648.5	3586.5	3586.5
12.5°	5488.3	4935.3	4268.7	3963.8	3829.4	3726.0	3767.4	3679.5	3658.9	3664.0	3648.5
15°	5891.4	5111.0	4335.9	4025.8	3932.8	3803.6	3772.6	3695.0	3617.5	3591.7	3622.7
17.5°	6268.7	5328.1	4382.4	4062.0	3912.1	3767.4	3731.2	3633.0	3607.2	3529.7	3467.7
20°	6718.3	5586.5	4444.4	4093.0	3834.6	3689.9	3596.9	3498.7	3410.8	3364.3	3385.0
22.5°	7018.0	5720.9	4475.4	4031.0	3720.9	3586.5	3390.1	3323.0	3198.9	3147.2	3105.9
25°	7508.9	5886.2	4397.9	3860.4	3519.3	3302.3	3126.6	3033.6	2945.7	2878.5	2857.8
27.5°	7633.0	6010.3	4217.0	3571.0	3198.9	2971.5	2821.7	2708.0	2651.1	2547.8	2527.1
30°	7994.7	5886.2	3948.3	3219.6	2894.0	2661.5	2511.6	2428.9	2294.5	2268.7	2211.9
32.5°	8227.3	5922.4	3607.2	2878.5	2542.6	2335.9	2237.7	2155.0	2118.8	1994.8	1963.8
35°	8614.9	5798.4	3260.9	2563.3	2253.2	2093.0	2010.3	1984.5	1865.6	1808.8	1757.1
37.5°	8862.9	5726.0	2914.7	2206.7	1938.0	1870.8	1896.6	1788.1	1643.4	1534.9	1498.7
40°	9297.0	5700.2	2521.9	1912.1	1720.9	1705.4	1788.1	1581.4	1317.8	1224.8	1173.1
42.5°	9922.4	5524.5	2217.0	1648.6	1550.4	1617.5	1633.1	1317.8	1167.9	1090.4	1054.2
45°	10521.8	5560.7	1917.3	1364.3	1348.8	1447.0	1410.8	1116.3	1028.4	971.6	1002.6
47.5°	11674.3	5741.5	1622.7	1136.9	1214.5	1307.5	1095.6	997.4	914.7	873.4	878.5
50°	13457.2	5917.2	1364.3	1038.7	1147.3	1183.4	940.6	904.4	899.2	816.5	811.4
52.5°	14526.9	5850.1	1317.8	1162.8	1230.0	1183.4	1023.2	997.4	956.1	919.9	878.5
55°	16227.2	6046.4	1416.0	1359.2	1395.3	1136.9	1147.3	1136.9	1105.9	1012.9	1038.7
57.5°	17581.2	6175.6	1545.2	1519.4	1498.7	1183.4	1199.0	1204.1	1183.4	1142.1	1178.3
60°	19441.6	6434.0	1679.6	1684.7	1689.9	1286.8	1312.6	1343.7	1338.5	1323.0	1333.3
62.5°	20583.7	6315.2	1829.4	1912.1	1886.3	1498.7	1493.5	1514.2	1514.2	1540.0	1555.5
65°	20413.2	5875.9	1907.0	2113.7	1979.3	1653.7	1653.7	1664.1	1669.2	1720.9	1726.1
67°	19389.9	5090.4	1865.6	2144.7	1979.3	1715.7	1715.7	1726.1	1689.9	1824.3	1782.9
67.5°	18914.5	4857.8	1829.4	2118.8	1963.8	1710.6	1710.6	1715.7	1684.7	1813.9	1772.6
70°	16449.4	3607.2	1576.2	1875.9	1819.1	1664.1	1664.1	1633.1	1607.2	1777.8	1741.6
72.5°	14041.2	2620.1	1266.1	1596.9	1643.4	1602.0	1612.4	1534.9	1462.5	1581.4	1550.4
75°	10754.4	1927.6	987.1	1230.0	1390.2	1498.7	1565.9	1369.5	1276.5	1307.5	1250.6
77.5°	5999.9	1255.8	780.4	909.5	1059.4	1395.3	1503.9	1235.1	1043.9	1007.7	1007.7
80°	2036.1	733.8	573.6	677.0	728.7	1235.1	1405.7	1002.6	821.7	785.5	759.7
82.5°	770.0	449.6	392.8	465.1	465.1	976.7	1147.3	770.0	620.1	801.0	816.5
85°	351.4	268.7	258.4	268.7	268.7	599.5	811.4	501.3	558.1	480.6	423.8
87.5°	139.5	129.2	118.9	113.7	93.0	103.4	279.1	134.4	253.2	67.2	62.0
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)