

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: P476898

Luminaire Tested: **IFLD-L-SA7E-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476898
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

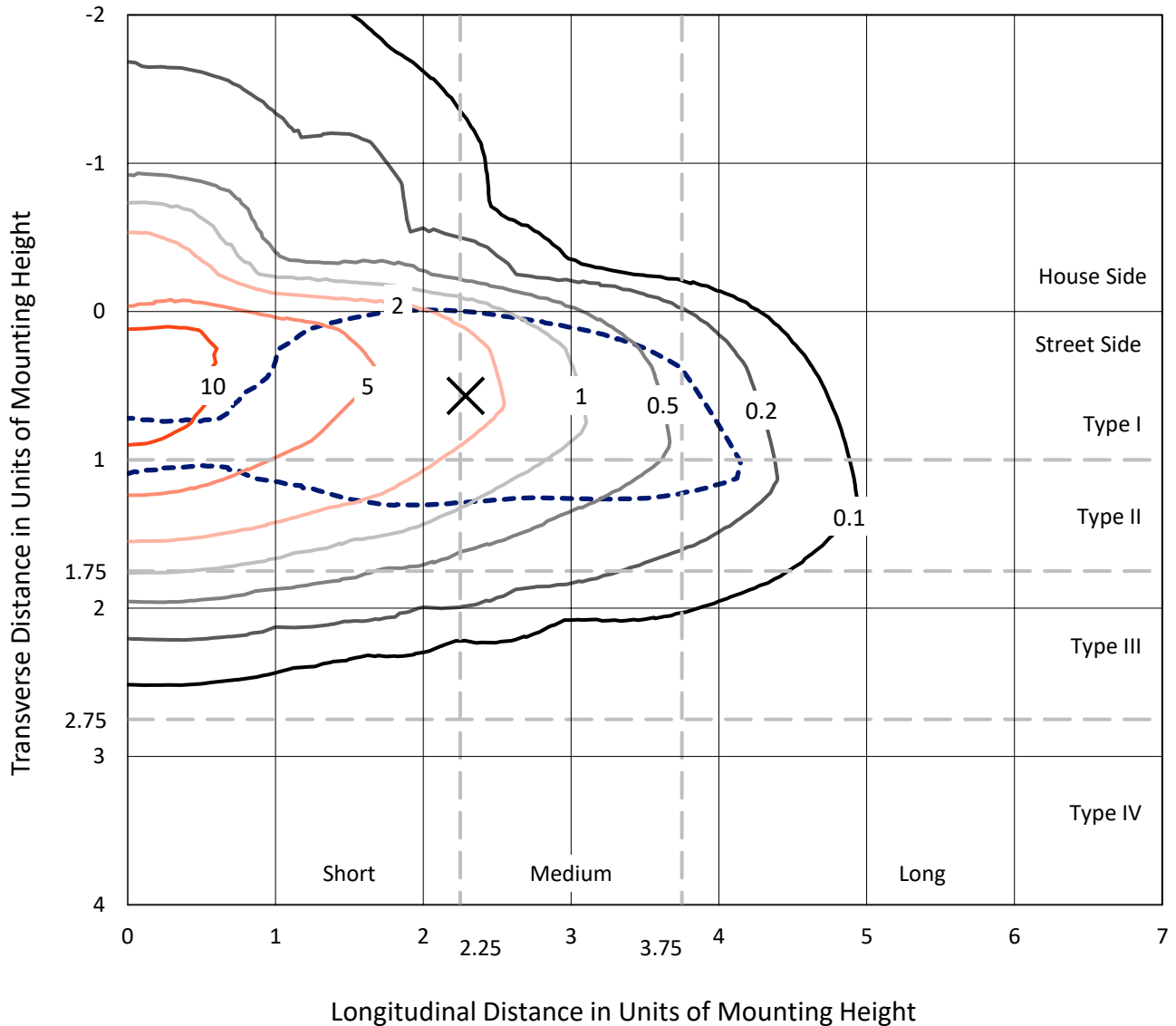
Lumens per Lamp: N/A
Luminaire Lumens: 47475.7 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 532.7
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: P476898
 CATALOG NUMBER: IFLD-L-SA7E-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

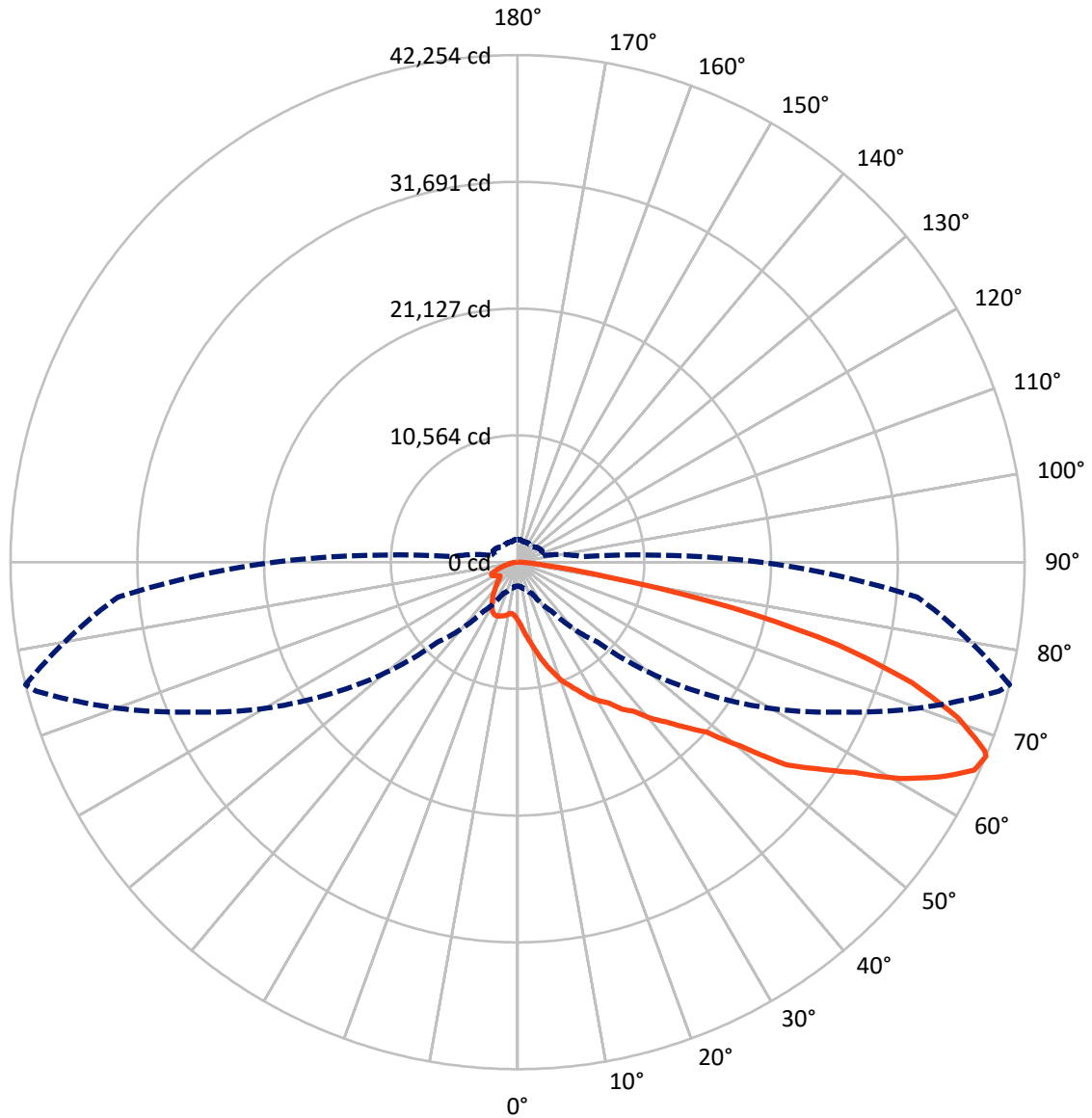
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P476898
CATALOG NUMBER: IFLD-L-SA7E-727-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	6754.0	0.0	6754.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	40721.7	0.0	40721.7
	% Fixture	85.8	0.0	85.8
Total	Lumens	47475.7	0.0	47475.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.8	1.2
10°-20°	2110.7	4.4
20°-30°	3924.1	8.3
30°-40°	6220.6	13.1
40°-50°	8603.6	18.1
50°-60°	10583.0	22.3
60°-70°	9847.9	20.7
70°-80°	4941.6	10.4
80°-90°	681.4	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°	47475.7	100.0
0°-180°	47475.7	100.0

Coefficient of Utilization



REPORT NUMBER: P476898

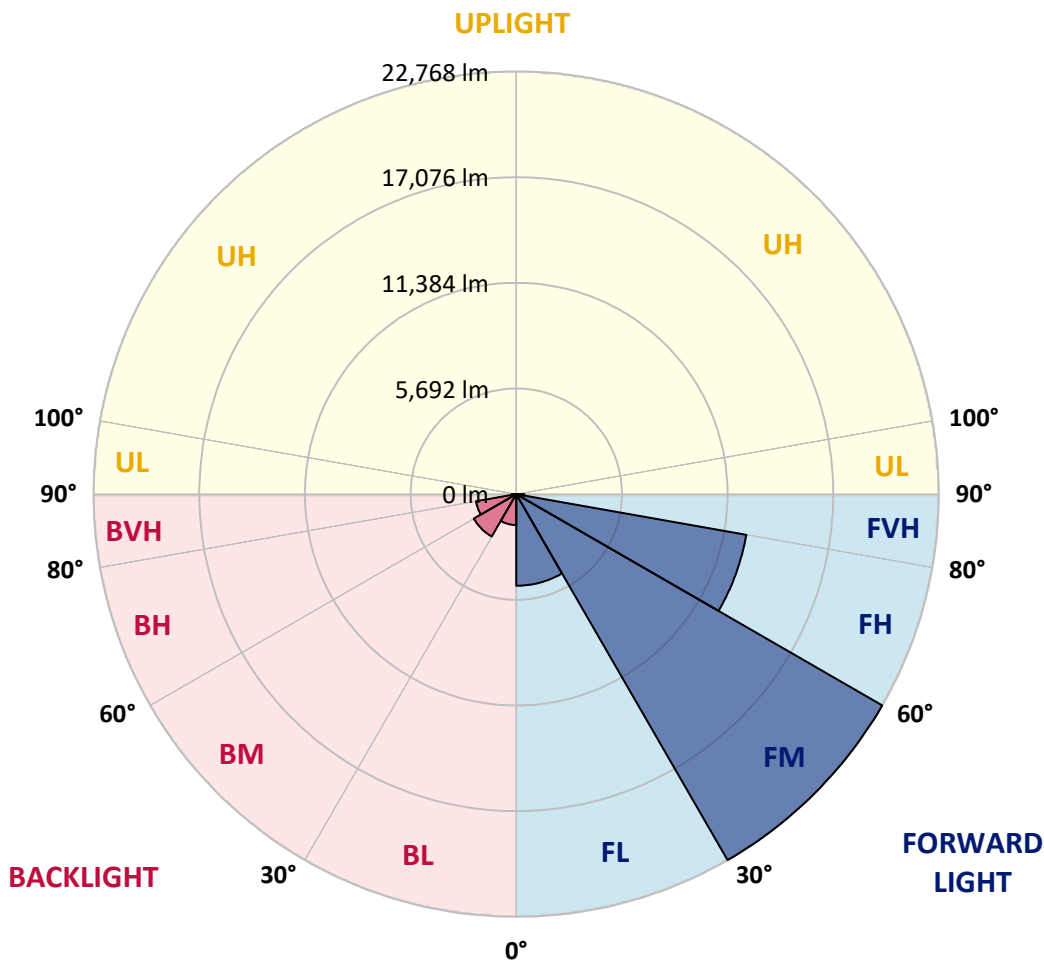
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4934.3	10.4			
FM (30°-60°)	22767.8	48.0			
FH (60°-80°)	12585.4	26.5			G5
FVH (80°-90°)	434.1	0.9			G3/500
BL (0°-30°)	1663.2	3.5	B3/2500		
BM (30°-60°)	2639.3	5.6	B3/5000		
BH (60°-80°)	2204.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	247.3	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: P476898

CATALOG NUMBER: IFLD-L-SA7E-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4
2.5°	6741.2	6660.0	6578.9	6405.7	6346.2	6183.9	5886.4	5556.3	5285.8	5247.9	5058.6
5°	8364.3	8245.2	8218.2	8120.8	7812.4	7498.6	7011.7	6481.5	5821.4	5870.1	5220.9
7.5°	9581.6	9511.2	9365.2	9273.2	9089.2	8672.6	8169.5	7466.2	6627.6	6465.3	5583.4
10°	10501.3	10403.9	10398.5	10317.4	10220.0	9792.6	9408.4	8461.6	7385.0	7163.2	6027.0
12.5°	10966.6	10950.4	11237.1	11237.1	11199.2	11020.7	10360.6	9495.0	8104.6	8028.8	6541.0
15°	11469.7	11334.5	11583.4	11772.7	11870.1	11962.1	11415.6	10501.3	9024.3	8878.2	7092.8
17.5°	11469.7	11458.9	11707.8	12021.6	12530.2	12649.2	12351.6	11426.5	9787.2	9678.9	7698.8
20°	11275.0	11431.9	11605.0	12027.0	12578.8	13060.4	13146.9	12373.3	10631.2	10544.6	8385.9
22.5°	12183.9	12032.4	12210.9	12373.3	12800.7	13531.0	13769.1	13206.4	11518.4	11188.4	9008.1
25°	13709.6	13606.8	13476.9	13238.9	13417.4	13736.6	14099.1	13823.2	12275.9	11908.0	9608.6
27.5°	15197.4	15202.8	14921.5	14402.1	14018.0	14082.9	14510.3	14364.2	12914.3	12752.0	10019.8
30°	17312.8	17183.0	16869.2	16165.8	15413.8	14797.0	14726.7	14867.4	13725.8	13412.0	10609.5
32.5°	18898.0	18925.1	18481.4	17469.7	16441.8	15938.6	15321.8	15381.4	14239.8	14007.2	11080.2
35°	20180.3	20147.8	19834.0	18995.4	17778.1	17172.1	16339.0	15998.1	15435.5	15067.6	11799.8
37.5°	21565.3	21300.2	20791.6	19844.8	19065.7	18227.1	17415.6	16647.4	16230.8	15787.1	12416.5
40°	22122.5	22122.5	21440.8	21008.0	20082.9	19449.9	18925.1	17502.2	17199.2	17112.6	13206.4
42.5°	21727.6	21971.0	21689.7	21197.4	20818.7	20017.9	19877.3	18389.5	18394.9	18221.7	14153.2
45°	21689.7	21354.3	21121.6	21246.1	21067.5	21024.3	21381.3	19617.6	19650.0	19628.4	15424.6
47.5°	20602.3	20450.8	20797.0	21002.6	21148.7	21819.6	22847.5	21083.8	21316.4	21154.1	16890.8
50°	19520.2	19493.1	19709.6	20456.2	21089.2	22192.9	24243.4	23345.3	24108.1	24097.3	19547.3
52.5°	16555.4	16842.1	17691.5	19271.3	20834.9	22701.4	25298.4	26234.3	27689.7	28084.6	21749.2
55°	13720.4	13568.9	14824.1	17118.0	19725.8	22901.6	26477.8	27971.0	30113.5	30400.2	24010.7
57.5°	10674.4	10955.8	11945.8	14147.8	17431.8	21911.5	27343.4	29686.1	32851.1	33072.9	26634.7
60°	7963.9	8001.8	9089.2	10863.8	14380.5	19677.1	27624.8	31444.4	35989.0	36622.0	29383.1
62.5°	5009.9	5237.1	6064.9	7812.4	10825.9	16550.0	26364.2	32510.2	39278.5	39446.2	32153.1
65°	2699.7	2845.8	3468.0	4566.3	7563.5	12519.3	23020.6	31871.8	40825.8	41821.3	33386.7
67°	1996.4	2023.4	2310.2	2916.1	5058.6	9424.7	19195.6	29561.6	41529.1	42254.1	33435.4
67.5°	1871.9	1909.8	2137.1	2618.6	4485.1	8678.0	18194.7	28739.3	41215.3	41994.4	33056.7
70°	1601.4	1612.3	1666.4	1801.6	2515.8	5220.9	12389.5	23550.8	38201.8	38948.4	30400.2
72.5°	1422.9	1433.7	1455.4	1482.4	1704.2	3018.9	7536.5	18124.4	33202.7	34393.0	26228.9
75°	1249.8	1287.6	1298.5	1276.8	1449.9	1963.9	4009.0	13320.0	27083.7	27662.6	20396.7
77.5°	1060.4	1076.6	1098.3	1119.9	1293.1	1466.2	1926.1	8991.8	18589.6	18238.0	11031.5
80°	892.7	898.1	914.3	930.6	1119.9	1119.9	1092.9	4858.4	8120.8	7763.7	3727.7
82.5°	638.4	676.3	714.2	757.4	930.6	752.0	714.2	2164.1	2569.9	2445.4	1260.6
85°	248.9	303.0	470.7	519.4	589.7	405.8	476.1	936.0	1071.2	1060.4	470.7
87.5°	43.3	48.7	129.8	200.2	216.4	140.7	227.2	335.4	400.4	432.8	173.1
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°	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4	4858.4
2.5°	4901.7	4734.0	4533.8	4333.6	4203.8	3998.2	3981.9	3857.5	3841.3	3798.0	3819.6
5°	4939.6	4739.4	4333.6	4014.4	3868.3	3749.3	3776.4	3722.3	3706.0	3679.0	3635.7
7.5°	5237.1	4842.2	4236.2	3960.3	3852.1	3798.0	3798.0	3733.1	3684.4	3716.8	3749.3
10°	5431.9	4890.9	4312.0	4036.1	3949.5	3830.5	3873.7	3792.6	3819.6	3754.7	3754.7
12.5°	5745.7	5166.8	4468.9	4149.7	4009.0	3900.8	3944.1	3852.1	3830.5	3835.9	3819.6
15°	6167.7	5350.7	4539.2	4214.6	4117.2	3981.9	3949.5	3868.3	3787.2	3760.1	3792.6
17.5°	6562.6	5578.0	4587.9	4252.5	4095.6	3944.1	3906.2	3803.4	3776.4	3695.2	3630.3
20°	7033.3	5848.5	4652.8	4284.9	4014.4	3862.9	3765.5	3662.7	3570.8	3522.1	3543.7
22.5°	7347.1	5989.2	4685.3	4220.0	3895.4	3754.7	3549.1	3478.8	3348.9	3294.8	3251.6
25°	7861.1	6162.3	4604.1	4041.5	3684.4	3457.2	3273.2	3175.8	3083.8	3013.5	2991.9
27.5°	7990.9	6292.1	4414.8	3738.5	3348.9	3110.9	2954.0	2835.0	2775.5	2667.3	2645.6
30°	8369.7	6162.3	4133.4	3370.6	3029.7	2786.3	2629.4	2542.8	2402.2	2375.1	2315.6
32.5°	8613.1	6200.2	3776.4	3013.5	2661.8	2445.4	2342.6	2256.1	2218.2	2088.4	2055.9
35°	9018.9	6070.3	3413.9	2683.5	2358.9	2191.2	2104.6	2077.5	1953.1	1893.6	1839.5
37.5°	9278.6	5994.6	3051.4	2310.2	2028.8	1958.5	1985.6	1871.9	1720.5	1606.8	1569.0
40°	9733.0	5967.5	2640.2	2001.8	1801.6	1785.4	1871.9	1655.5	1379.6	1282.2	1228.1
42.5°	10387.7	5783.6	2321.0	1725.9	1623.1	1693.4	1709.6	1379.6	1222.7	1141.6	1103.7
45°	11015.3	5821.4	2007.2	1428.3	1412.1	1514.9	1477.0	1168.6	1076.6	1017.1	1049.6
47.5°	12221.8	6010.8	1698.8	1190.3	1271.4	1368.8	1147.0	1044.2	957.6	914.3	919.7
50°	14088.3	6194.7	1428.3	1087.5	1201.1	1238.9	984.7	946.8	941.4	854.8	849.4
52.5°	15208.2	6124.4	1379.6	1217.3	1287.6	1238.9	1071.2	1044.2	1000.9	963.0	919.7
55°	16988.2	6330.0	1482.4	1422.9	1460.8	1190.3	1201.1	1190.3	1157.8	1060.4	1087.5
57.5°	18405.7	6465.3	1617.7	1590.6	1569.0	1238.9	1255.2	1260.6	1238.9	1195.7	1233.5
60°	20353.4	6735.8	1758.3	1763.7	1769.2	1347.2	1374.2	1406.7	1401.3	1385.0	1395.8
62.5°	21549.0	6611.3	1915.2	2001.8	1974.7	1569.0	1563.6	1585.2	1585.2	1612.3	1628.5
65°	21370.5	6151.5	1996.4	2212.8	2072.1	1731.3	1731.3	1742.1	1747.5	1801.6	1807.0
67°	20299.3	5329.1	1953.1	2245.3	2072.1	1796.2	1796.2	1807.0	1769.2	1909.8	1866.5
67.5°	19801.5	5085.6	1915.2	2218.2	2055.9	1790.8	1790.8	1796.2	1763.7	1899.0	1855.7
70°	17220.8	3776.4	1650.1	1963.9	1904.4	1742.1	1742.1	1709.6	1682.6	1861.1	1823.3
72.5°	14699.7	2743.0	1325.5	1671.8	1720.5	1677.2	1688.0	1606.8	1531.1	1655.5	1623.1
75°	11258.7	2018.0	1033.4	1287.6	1455.4	1569.0	1639.3	1433.7	1336.3	1368.8	1309.3
77.5°	6281.3	1314.7	816.9	952.2	1109.1	1460.8	1574.4	1293.1	1092.9	1055.0	1055.0
80°	2131.6	768.3	600.5	708.7	762.8	1293.1	1471.6	1049.6	860.2	822.4	795.3
82.5°	806.1	470.7	411.2	486.9	486.9	1022.5	1201.1	806.1	649.2	838.6	854.8
85°	367.9	281.3	270.5	281.3	281.3	627.6	849.4	524.8	584.3	503.2	443.6
87.5°	146.1	135.3	124.4	119.0	97.4	108.2	292.2	140.7	265.1	70.3	64.9
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)