

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: P477017

Luminaire Tested: **IFLD-L-SA8B-740-U-T2R**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P477017  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8B-740-U-T2R  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens  
Light Source: (128) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

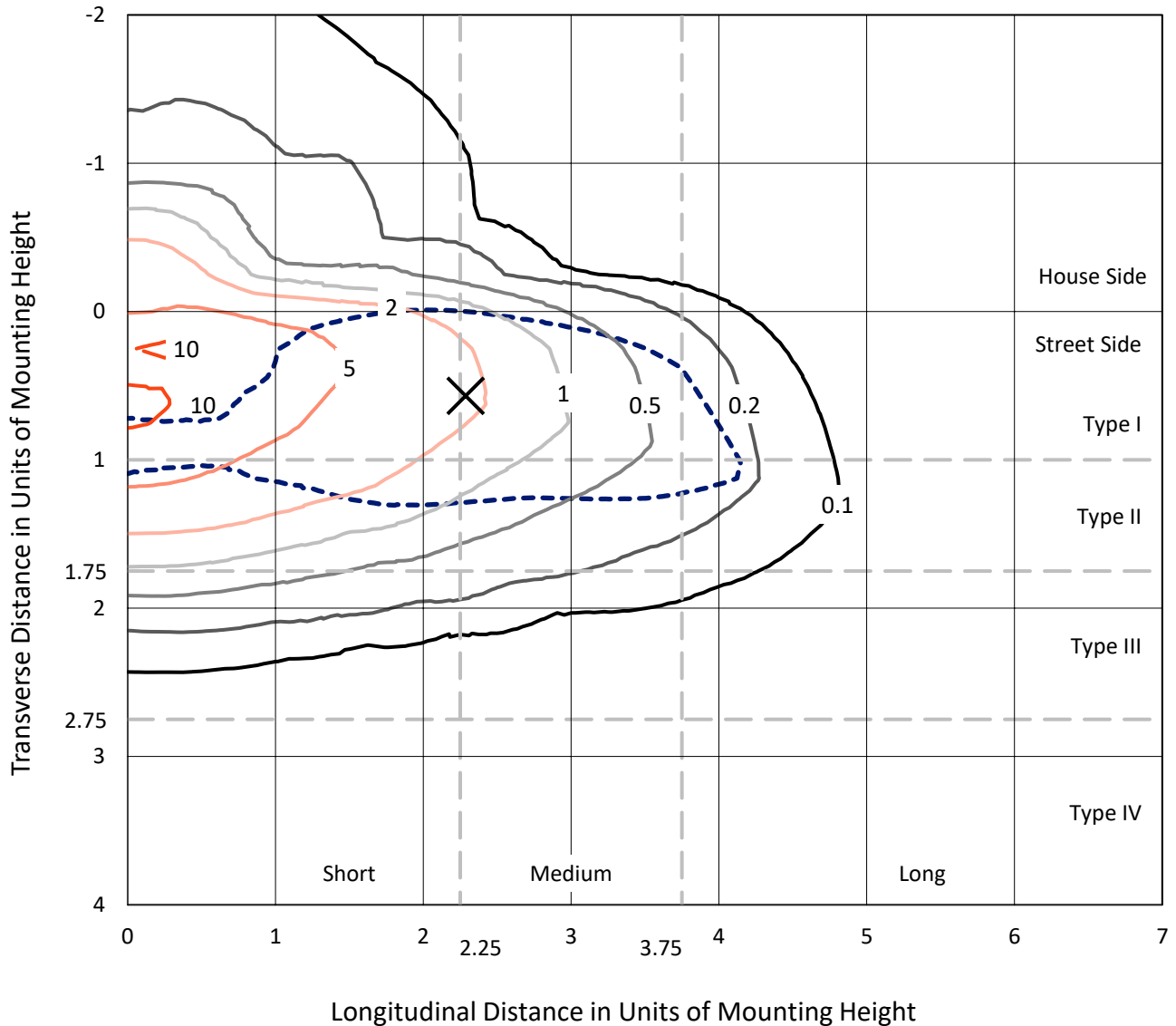
Lumens per Lamp: N/A  
Luminaire Lumens: 40927.4 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G4

Input Watts (W): 320  
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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### Iso-Footcandle Lines of Horizontal Illumination

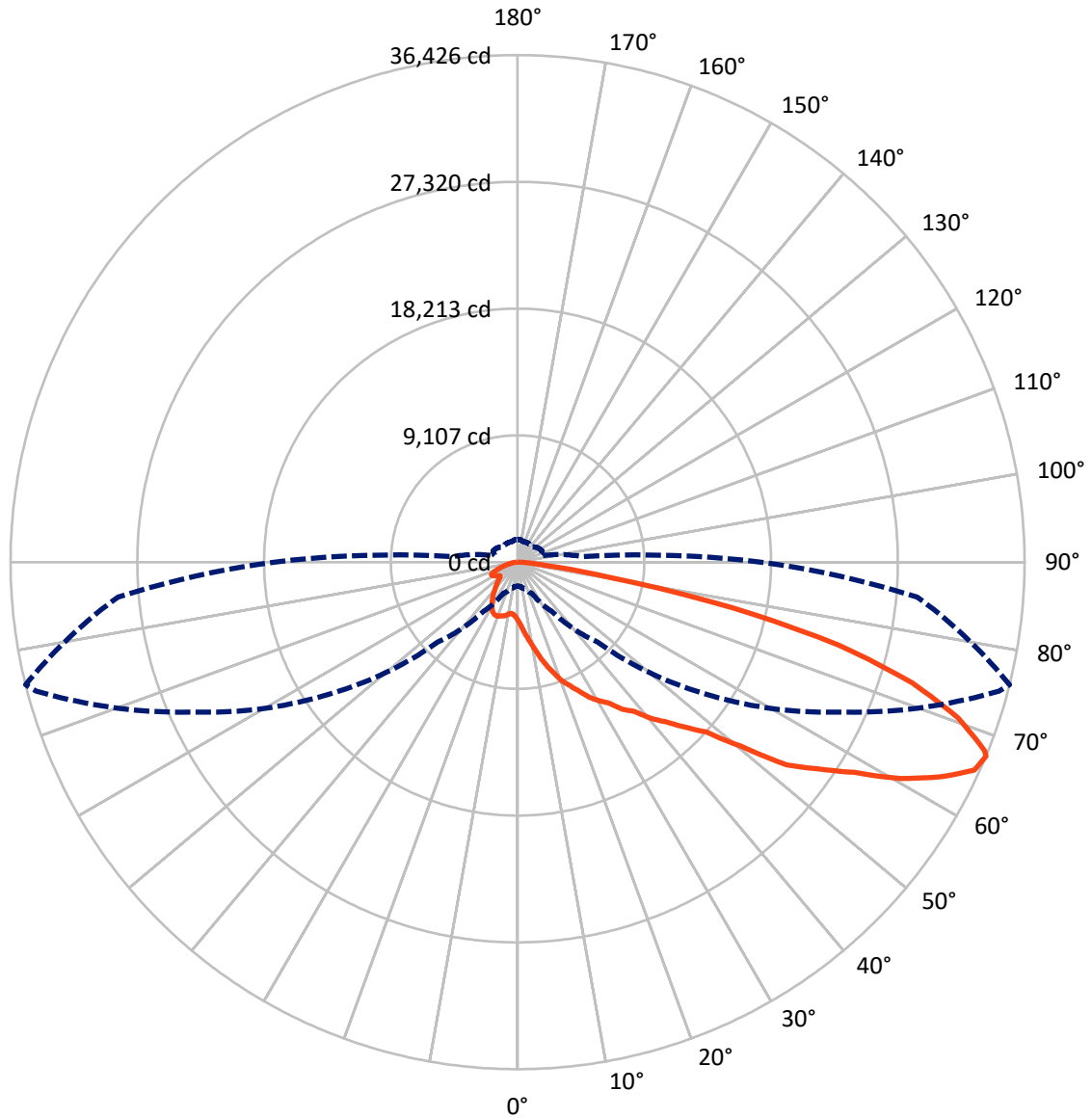
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Medium - N/A

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### 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
<b>House Side</b>	Lumens	5822.4	0.0	5822.4
	% Fixture	14.2	0.0	14.2
<b>Street Side</b>	Lumens	35105.0	0.0	35105.0
	% Fixture	85.8	0.0	85.8
<b>Total</b>	Lumens	40927.4	0.0	40927.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	485.1	1.2
10°-20°	1819.6	4.4
20°-30°	3382.8	8.3
30°-40°	5362.6	13.1
40°-50°	7416.9	18.1
50°-60°	9123.3	22.3
60°-70°	8489.6	20.7
70°-80°	4260.0	10.4
80°-90°	587.4	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°	40927.4	100.0
0°-180°	40927.4	100.0

**Coefficient of Utilization**



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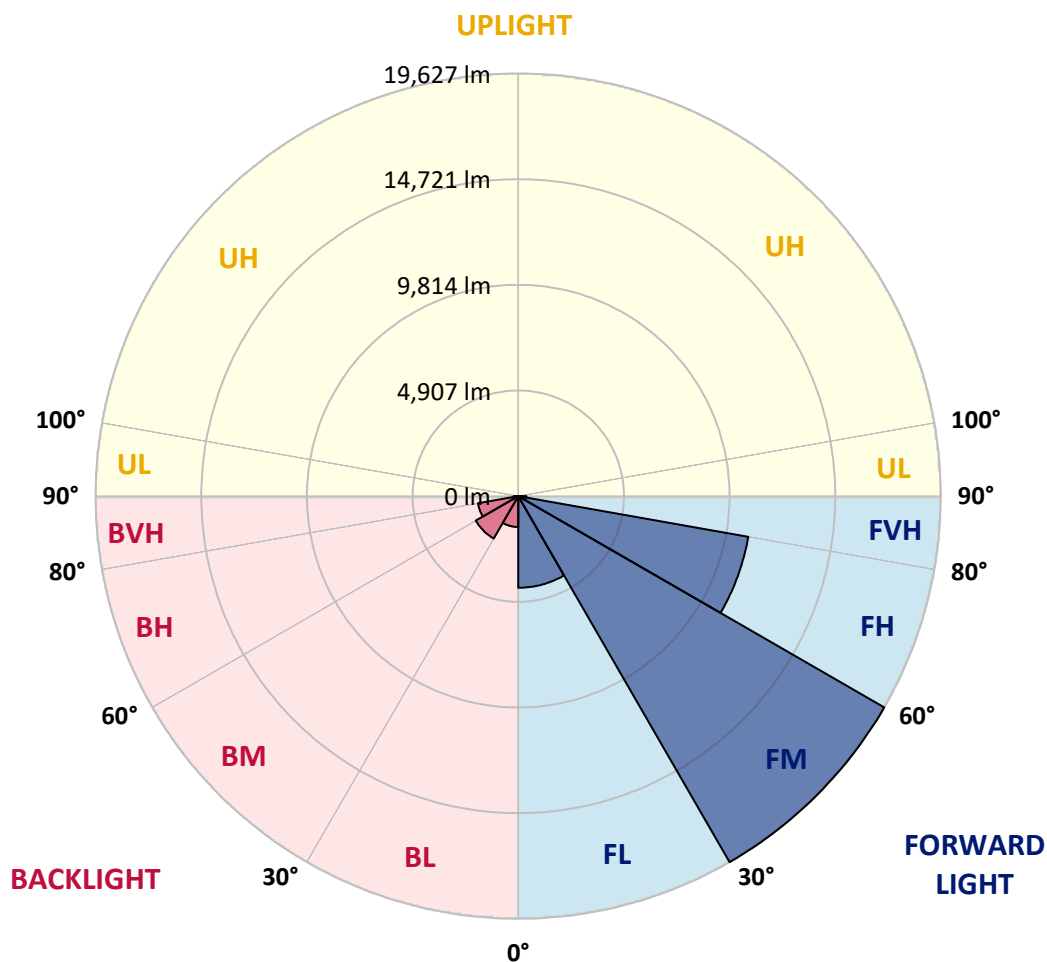
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4253.7	10.4			
FM (30°-60°)	19627.5	48.0			
FH (60°-80°)	10849.5	26.5			G4/12000
FVH (80°-90°)	374.2	0.9			G3/500
BL (0°-30°)	1433.8	3.5	B3/2500		
BM (30°-60°)	2275.3	5.6	B2/2500		
BH (60°-80°)	1900.2	4.6	B3/2500		G3/2500
BVH (80°-90°)	213.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3
2.5°	5811.4	5741.4	5671.5	5522.2	5470.9	5331.0	5074.5	4790.0	4556.8	4524.1	4360.9
5°	7210.6	7108.0	7084.7	7000.7	6734.9	6464.3	6044.6	5587.5	5018.5	5060.5	4500.8
7.5°	8260.0	8199.4	8073.4	7994.1	7835.6	7476.4	7042.7	6436.4	5713.4	5573.5	4813.3
10°	9052.9	8968.9	8964.3	8894.3	8810.3	8441.9	8110.7	7294.5	6366.4	6175.2	5195.7
12.5°	9454.0	9440.0	9687.2	9687.2	9654.5	9500.6	8931.6	8185.4	6986.7	6921.4	5638.8
15°	9887.7	9771.1	9985.7	10148.9	10232.9	10312.2	9841.1	9052.9	7779.6	7653.7	6114.5
17.5°	9887.7	9878.4	10093.0	10363.5	10801.9	10904.5	10648.0	9850.4	8437.2	8343.9	6636.9
20°	9719.8	9855.1	10004.3	10368.1	10843.9	11259.0	11333.6	10666.6	9164.8	9090.2	7229.2
22.5°	10503.4	10372.8	10526.7	10666.6	11035.1	11664.7	11869.9	11384.9	9929.7	9645.2	7765.6
25°	11818.6	11730.0	11618.1	11412.9	11566.8	11842.0	12154.5	11916.6	10582.7	10265.5	8283.3
27.5°	13101.2	13105.9	12863.4	12415.6	12084.5	12140.5	12508.9	12383.0	11133.0	10993.1	8637.8
30°	14924.9	14812.9	14542.4	13936.1	13287.8	12756.1	12695.5	12816.7	11832.6	11562.1	9146.2
32.5°	16291.4	16314.8	15932.3	15060.1	14174.0	13740.2	13208.5	13259.8	12275.7	12075.2	9551.9
35°	17396.8	17368.8	17098.3	16375.4	15326.0	14803.6	14085.4	13791.5	13306.5	12989.3	10172.2
37.5°	18590.8	18362.3	17923.9	17107.6	16436.0	15713.1	15013.5	14351.2	13992.1	13609.6	10703.9
40°	19071.2	19071.2	18483.5	18110.4	17312.9	16767.2	16314.8	15088.1	14826.9	14752.3	11384.9
42.5°	18730.7	18940.6	18698.1	18273.7	17947.2	17256.9	17135.6	15853.0	15857.7	15708.4	12201.1
45°	18698.1	18408.9	18208.4	18315.6	18161.7	18124.4	18432.2	16911.8	16939.7	16921.1	13297.1
47.5°	17760.6	17630.0	17928.5	18105.7	18231.7	18810.0	19696.2	18175.7	18376.3	18236.3	14561.1
50°	16827.8	16804.5	16991.0	17634.7	18180.4	19131.8	20899.5	20125.3	20782.9	20773.6	16851.1
52.5°	14271.9	14519.1	15251.4	16613.3	17961.2	19570.3	21809.0	22615.9	23870.5	24211.0	18749.4
55°	11828.0	11697.4	12779.4	14757.0	17005.0	19742.8	22825.7	24113.0	25960.0	26207.2	20698.9
57.5°	9202.1	9444.7	10298.2	12196.4	15027.5	18889.3	23572.0	25591.5	28320.0	28511.2	22961.0
60°	6865.4	6898.1	7835.6	9365.4	12397.0	16963.1	23814.5	27107.3	31025.1	31570.8	25330.3
62.5°	4318.9	4514.8	5228.4	6734.9	9332.7	14267.3	22727.8	28026.1	33860.8	34005.4	27718.3
65°	2327.3	2453.3	2989.6	3936.4	6520.3	10792.6	19845.4	27475.8	35194.7	36052.9	28781.7
67°	1721.0	1744.3	1991.5	2513.9	4360.9	8124.7	16548.0	25484.2	35801.1	36426.0	28823.7
67.5°	1613.8	1646.4	1842.3	2257.4	3866.5	7481.1	15685.1	24775.3	35530.6	36202.2	28497.2
70°	1380.6	1389.9	1436.5	1553.1	2168.8	4500.8	10680.6	20302.5	32932.7	33576.3	26207.2
72.5°	1226.6	1236.0	1254.6	1277.9	1469.2	2602.5	6497.0	15624.5	28623.1	29649.2	22611.2
75°	1077.4	1110.0	1119.4	1100.7	1250.0	1693.0	3456.0	11482.8	23348.1	23847.2	17583.4
77.5°	914.1	928.1	946.8	965.5	1114.7	1264.0	1660.4	7751.6	16025.6	15722.4	9509.9
80°	769.6	774.2	788.2	802.2	965.5	965.5	942.1	4188.3	7000.7	6692.9	3213.5
82.5°	550.4	583.0	615.7	653.0	802.2	648.3	615.7	1865.6	2215.4	2108.1	1086.7
85°	214.5	261.2	405.8	447.7	508.4	349.8	410.4	806.9	923.5	914.1	405.8
87.5°	37.3	42.0	111.9	172.6	186.6	121.3	195.9	289.2	345.1	373.1	149.2
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°	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3	4188.3
2.5°	4225.6	4081.0	3908.5	3735.9	3623.9	3446.7	3432.7	3325.5	3311.5	3274.1	3292.8
5°	4258.3	4085.7	3735.9	3460.7	3334.8	3232.2	3255.5	3208.9	3194.9	3171.5	3134.2
7.5°	4514.8	4174.3	3651.9	3414.1	3320.8	3274.1	3274.1	3218.2	3176.2	3204.2	3232.2
10°	4682.7	4216.3	3717.2	3479.4	3404.7	3302.1	3339.4	3269.5	3292.8	3236.8	3236.8
12.5°	4953.2	4454.1	3852.5	3577.3	3456.0	3362.8	3400.1	3320.8	3302.1	3306.8	3292.8
15°	5317.0	4612.7	3913.1	3633.3	3549.3	3432.7	3404.7	3334.8	3264.8	3241.5	3269.5
17.5°	5657.5	4808.6	3955.1	3665.9	3530.7	3400.1	3367.4	3278.8	3255.5	3185.5	3129.6
20°	6063.2	5041.8	4011.1	3693.9	3460.7	3330.1	3246.2	3157.5	3078.3	3036.3	3054.9
22.5°	6333.7	5163.1	4039.0	3637.9	3358.1	3236.8	3059.6	2999.0	2887.0	2840.4	2803.1
25°	6776.8	5312.3	3969.1	3484.0	3176.2	2980.3	2821.7	2737.8	2658.5	2597.9	2579.2
27.5°	6888.8	5424.3	3805.8	3222.8	2887.0	2681.8	2546.6	2443.9	2392.6	2299.4	2280.7
30°	7215.2	5312.3	3563.3	2905.7	2611.9	2402.0	2266.7	2192.1	2070.8	2047.5	1996.2
32.5°	7425.1	5345.0	3255.5	2597.9	2294.7	2108.1	2019.5	1944.9	1912.3	1800.3	1772.3
35°	7774.9	5233.0	2943.0	2313.4	2033.5	1888.9	1814.3	1791.0	1683.7	1632.4	1585.8
37.5°	7998.8	5167.7	2630.5	1991.5	1749.0	1688.4	1711.7	1613.8	1483.2	1385.2	1352.6
40°	8390.6	5144.4	2276.0	1725.7	1553.1	1539.1	1613.8	1427.2	1189.3	1105.4	1058.7
42.5°	8954.9	4985.8	2000.9	1487.8	1399.2	1459.8	1473.8	1189.3	1054.1	984.1	951.5
45°	9496.0	5018.5	1730.4	1231.3	1217.3	1305.9	1273.3	1007.4	928.1	876.8	904.8
47.5°	10536.0	5181.7	1464.5	1026.1	1096.0	1180.0	988.8	900.2	825.5	788.2	792.9
50°	12145.1	5340.3	1231.3	937.5	1035.4	1068.1	848.9	816.2	811.5	736.9	732.3
52.5°	13110.6	5279.7	1189.3	1049.4	1110.0	1068.1	923.5	900.2	862.8	830.2	792.9
55°	14645.0	5456.9	1277.9	1226.6	1259.3	1026.1	1035.4	1026.1	998.1	914.1	937.5
57.5°	15867.0	5573.5	1394.5	1371.2	1352.6	1068.1	1082.1	1086.7	1068.1	1030.7	1063.4
60°	17546.1	5806.7	1515.8	1520.5	1525.1	1161.3	1184.7	1212.6	1208.0	1194.0	1203.3
62.5°	18576.8	5699.4	1651.1	1725.7	1702.4	1352.6	1347.9	1366.6	1366.6	1389.9	1403.9
65°	18422.9	5303.0	1721.0	1907.6	1786.3	1492.5	1492.5	1501.8	1506.5	1553.1	1557.8
67°	17499.4	4594.1	1683.7	1935.6	1786.3	1548.5	1548.5	1557.8	1525.1	1646.4	1609.1
67.5°	17070.3	4384.2	1651.1	1912.3	1772.3	1543.8	1543.8	1548.5	1520.5	1637.1	1599.8
70°	14845.6	3255.5	1422.5	1693.0	1641.7	1501.8	1501.8	1473.8	1450.5	1604.4	1571.8
72.5°	12672.2	2364.7	1142.7	1441.2	1483.2	1445.8	1455.2	1385.2	1319.9	1427.2	1399.2
75°	9705.8	1739.7	890.8	1110.0	1254.6	1352.6	1413.2	1236.0	1152.0	1180.0	1128.7
77.5°	5414.9	1133.4	704.3	820.9	956.1	1259.3	1357.2	1114.7	942.1	909.5	909.5
80°	1837.6	662.3	517.7	611.0	657.6	1114.7	1268.6	904.8	741.6	708.9	685.6
82.5°	694.9	405.8	354.5	419.8	419.8	881.5	1035.4	694.9	559.7	722.9	736.9
85°	317.2	242.5	233.2	242.5	242.5	541.0	732.3	452.4	503.7	433.8	382.5
87.5°	125.9	116.6	107.3	102.6	84.0	93.3	251.9	121.3	228.5	60.6	56.0
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)