

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: P477161

Luminaire Tested: **IFLD-S-SA6E-830-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477161
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-830-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

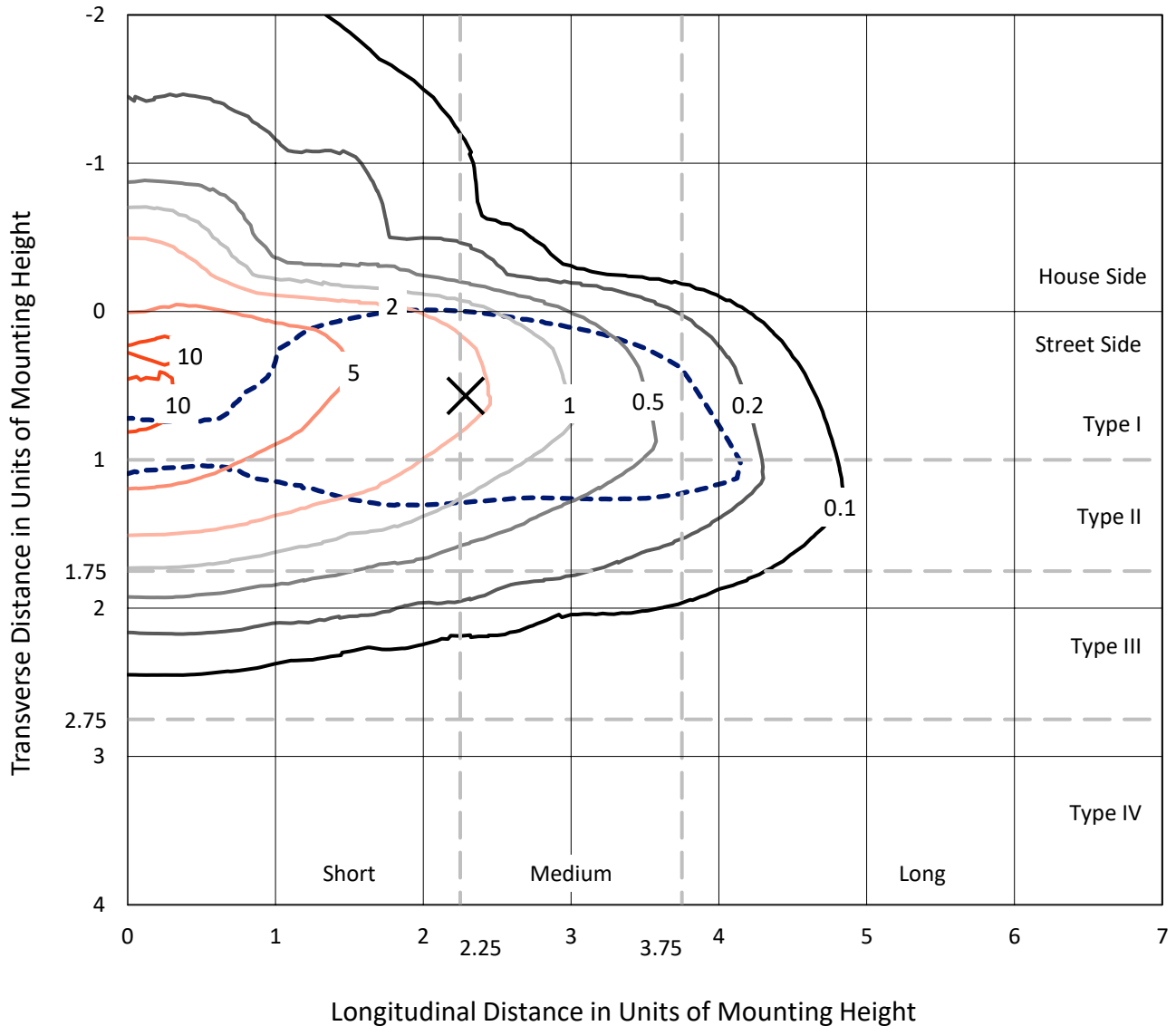
Lumens per Lamp: N/A
Luminaire Lumens: 42280.9 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 464.2
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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Iso-Footcandle Lines of Horizontal Illumination

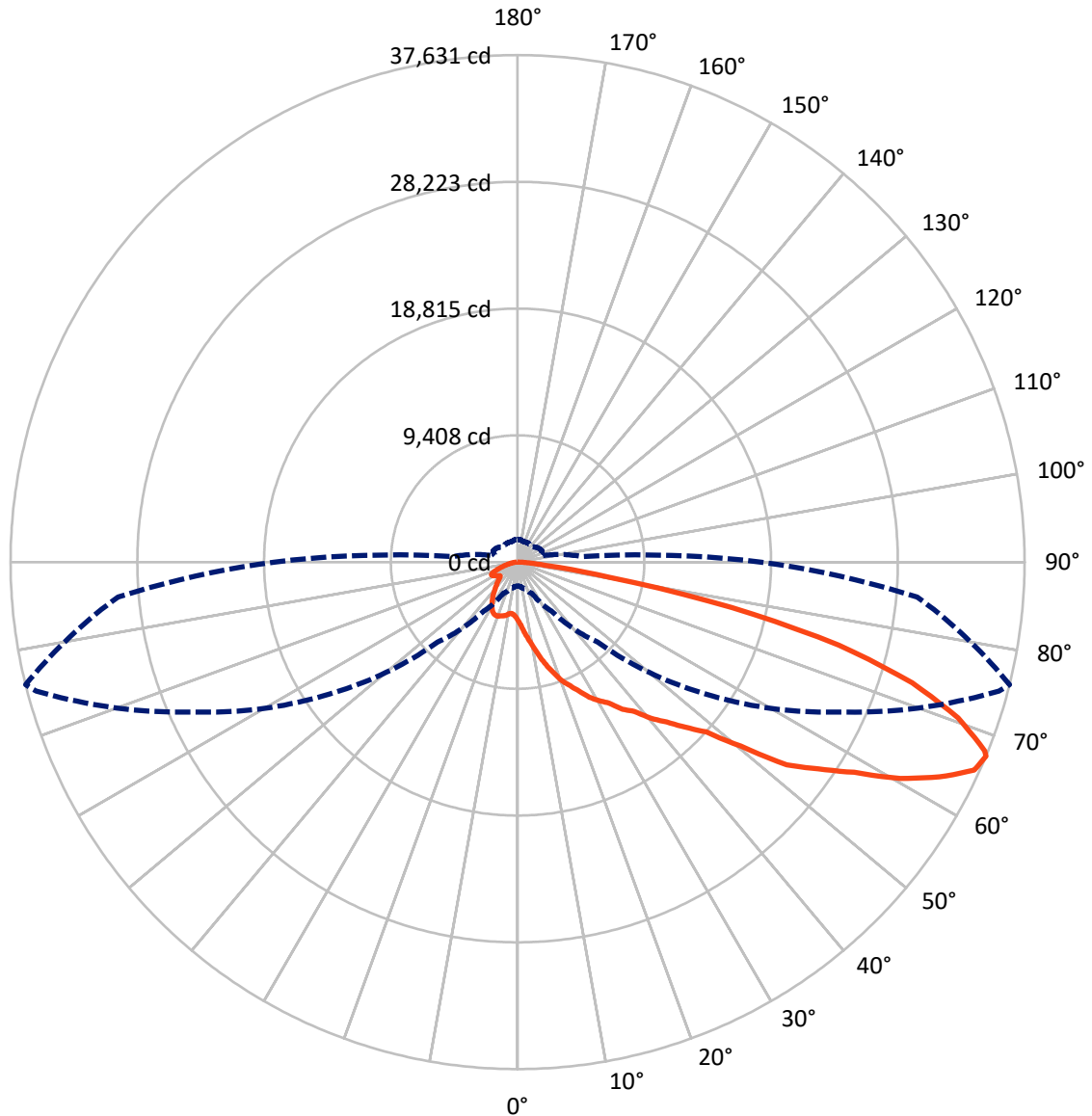
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.2 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
House Side	Lumens	6015.0	0.0	6015.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	36265.9	0.0	36265.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	42280.9	0.0	42280.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.2	1.2
10°-20°	1879.8	4.4
20°-30°	3494.7	8.3
30°-40°	5539.9	13.1
40°-50°	7662.2	18.1
50°-60°	9425.0	22.3
60°-70°	8770.4	20.7
70°-80°	4400.9	10.4
80°-90°	606.8	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°	42280.9	100.0
0°-180°	42280.9	100.0

Coefficient of Utilization



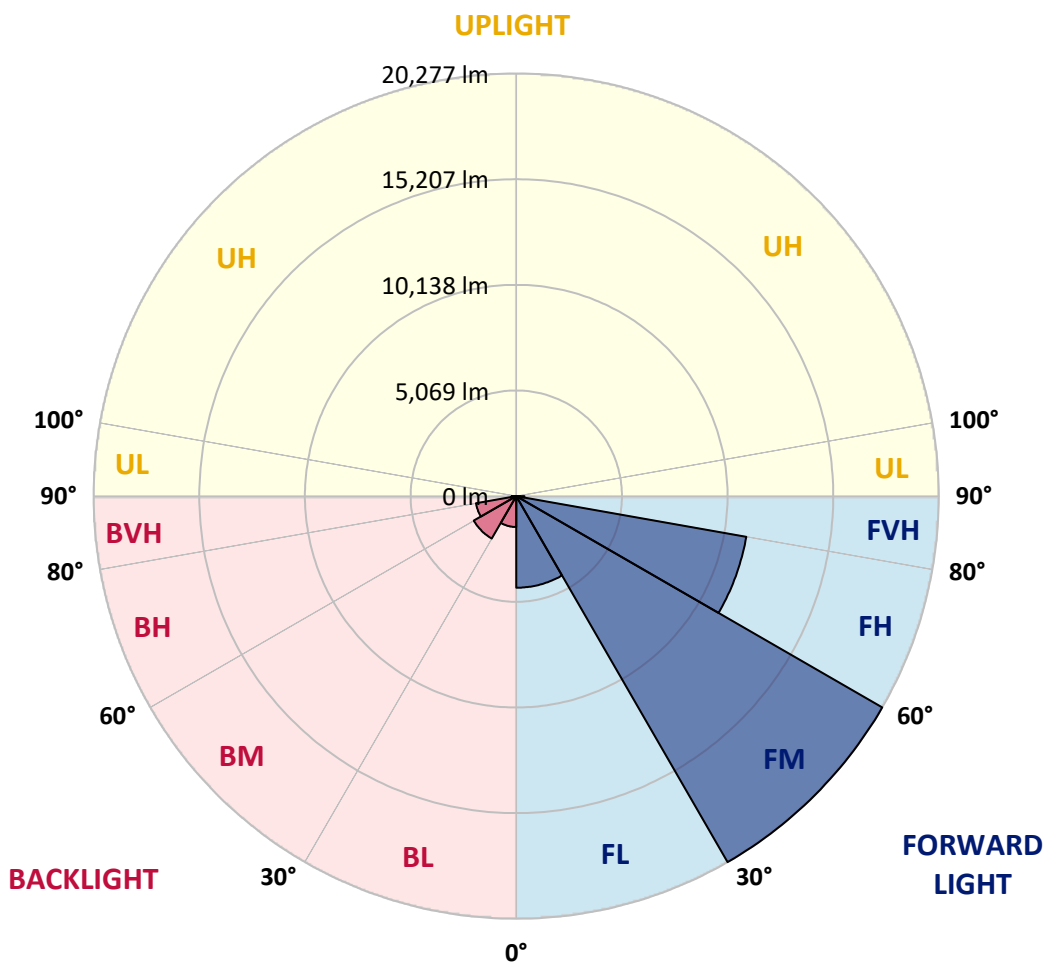
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4394.4	10.4			
FM (30°-60°)	20276.6	48.0			
FH (60°-80°)	11208.3	26.5			G4/12000
FVH (80°-90°)	386.6	0.9			G3/500
BL (0°-30°)	1481.2	3.5	B3/2500		
BM (30°-60°)	2350.5	5.6	B2/2500		
BH (60°-80°)	1963.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	220.2	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°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	6003.6	5931.3	5859.0	5704.8	5651.8	5507.3	5242.3	4948.4	4707.5	4673.7	4505.1
5°	7449.0	7343.0	7319.0	7232.2	6957.6	6678.1	6244.5	5772.3	5184.5	5227.8	4649.6
7.5°	8533.2	8470.5	8340.4	8258.5	8094.7	7723.7	7275.6	6649.2	5902.4	5757.8	4972.5
10°	9352.3	9265.5	9260.7	9188.4	9101.7	8721.1	8379.0	7535.8	6576.9	6379.4	5367.6
12.5°	9766.6	9752.2	10007.6	10007.6	9973.8	9814.8	9227.0	8456.1	7217.8	7150.3	5825.3
15°	10214.7	10094.3	10315.9	10484.6	10571.3	10653.2	10166.6	9352.3	8036.9	7906.8	6316.8
17.5°	10214.7	10205.1	10426.7	10706.2	11159.1	11265.1	11000.1	10176.2	8716.3	8619.9	6856.4
20°	10041.3	10181.0	10335.2	10711.0	11202.5	11631.3	11708.4	11019.4	9467.9	9390.8	7468.3
22.5°	10850.7	10715.8	10874.8	11019.4	11400.0	12050.5	12262.5	11761.4	10258.1	9964.2	8022.4
25°	12209.5	12118.0	12002.3	11790.3	11949.3	12233.6	12556.4	12310.7	10932.7	10605.0	8557.3
27.5°	13534.5	13539.3	13288.8	12826.2	12484.1	12542.0	12922.6	12792.5	11501.2	11356.7	8923.4
30°	15418.5	15302.8	15023.4	14397.0	13727.3	13178.0	13115.3	13240.6	12224.0	11944.5	9448.6
32.5°	16830.2	16854.3	16459.2	15558.2	14642.7	14194.6	13645.3	13698.3	12681.7	12474.5	9867.8
35°	17972.2	17943.2	17663.8	16917.0	15832.8	15293.2	14551.2	14247.6	13746.5	13418.9	10508.7
37.5°	19205.6	18969.5	18516.6	17673.4	16979.6	16232.8	15510.0	14825.8	14454.8	14059.7	11057.9
40°	19701.9	19701.9	19094.8	18709.4	17885.4	17321.7	16854.3	15587.1	15317.3	15240.2	11761.4
42.5°	19350.2	19567.0	19316.5	18878.0	18540.7	17827.6	17702.3	16377.3	16382.1	16227.9	12604.6
45°	19316.5	19017.7	18810.5	18921.4	18762.4	18723.8	19041.8	17471.1	17500.0	17480.7	13736.9
47.5°	18348.0	18213.1	18521.4	18704.5	18834.6	19432.1	20347.6	18776.8	18984.0	18839.4	15042.6
50°	17384.3	17360.2	17553.0	18217.9	18781.6	19764.6	21590.7	20790.8	21470.2	21460.6	17408.4
52.5°	14743.9	14999.3	15755.8	17162.7	18555.2	20217.5	22530.2	23363.8	24659.9	25011.7	19369.5
55°	12219.1	12084.2	13202.1	15245.0	17567.4	20395.7	23580.6	24910.5	26818.5	27073.9	21383.5
57.5°	9506.5	9757.0	10638.7	12599.8	15524.5	19514.0	24351.5	26437.9	29256.6	29454.1	23720.4
60°	7092.5	7126.2	8094.7	9675.1	12807.0	17524.1	24602.1	28003.8	32051.1	32614.9	26168.0
62.5°	4461.7	4664.1	5401.3	6957.6	9641.4	14739.1	23479.4	28953.0	34980.7	35130.0	28635.0
65°	2404.3	2534.4	3088.5	4066.6	6735.9	11149.5	20501.7	28384.4	36358.7	37245.2	29733.6
67°	1777.9	1802.0	2057.4	2597.0	4505.1	8393.4	17095.2	26327.0	36985.1	37630.7	29776.9
67.5°	1667.1	1700.9	1903.2	2332.0	3994.3	7728.5	16203.9	25594.7	36705.6	37399.4	29439.6
70°	1426.2	1435.8	1484.0	1604.5	2240.5	4649.6	11033.8	20973.9	34021.8	34686.7	27073.9
72.5°	1267.2	1276.8	1296.1	1320.2	1517.8	2688.6	6711.9	16141.2	29569.7	30629.8	23359.0
75°	1113.0	1146.7	1156.4	1137.1	1291.3	1749.0	3570.3	11862.6	24120.3	24635.8	18164.9
77.5°	944.4	958.8	978.1	997.4	1151.6	1305.8	1715.3	8008.0	16555.6	16242.4	9824.5
80°	795.0	799.8	814.3	828.7	997.4	997.4	973.3	4326.8	7232.2	6914.2	3319.8
82.5°	568.6	602.3	636.0	674.6	828.7	669.7	636.0	1927.3	2288.7	2177.9	1122.7
85°	221.6	269.8	419.2	462.6	525.2	361.4	424.0	833.6	954.0	944.4	419.2
87.5°	38.5	43.4	115.6	178.3	192.7	125.3	202.4	298.7	356.6	385.5	154.2
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°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	4365.4	4216.0	4037.7	3859.4	3743.8	3560.7	3546.2	3435.4	3421.0	3382.4	3401.7
5°	4399.1	4220.8	3859.4	3575.2	3445.1	3339.1	3363.2	3315.0	3300.5	3276.4	3237.9
7.5°	4664.1	4312.4	3772.7	3527.0	3430.6	3382.4	3382.4	3324.6	3281.2	3310.2	3339.1
10°	4837.5	4355.7	3840.2	3594.4	3517.3	3411.3	3449.9	3377.6	3401.7	3343.9	3343.9
12.5°	5117.0	4601.5	3979.9	3695.6	3570.3	3474.0	3512.5	3430.6	3411.3	3416.2	3401.7
15°	5492.8	4765.3	4042.5	3753.4	3666.7	3546.2	3517.3	3445.1	3372.8	3348.7	3377.6
17.5°	5844.6	4967.6	4085.9	3787.2	3647.4	3512.5	3478.8	3387.2	3363.2	3290.9	3233.1
20°	6263.8	5208.6	4143.7	3816.1	3575.2	3440.2	3353.5	3262.0	3180.1	3136.7	3156.0
22.5°	6543.2	5333.8	4172.6	3758.3	3469.2	3343.9	3160.8	3098.1	2982.5	2934.3	2895.8
25°	7000.9	5488.0	4100.3	3599.2	3281.2	3078.9	2915.1	2828.3	2746.4	2683.8	2664.5
27.5°	7116.6	5603.7	3931.7	3329.4	2982.5	2770.5	2630.8	2524.8	2471.8	2375.4	2356.1
30°	7453.9	5488.0	3681.2	3001.8	2698.2	2481.4	2341.7	2264.6	2139.3	2115.2	2062.2
32.5°	7670.7	5521.7	3363.2	2683.8	2370.6	2177.9	2086.3	2009.2	1975.5	1859.9	1830.9
35°	8032.1	5406.1	3040.3	2389.9	2100.8	1951.4	1874.3	1850.2	1739.4	1686.4	1638.2
37.5°	8263.3	5338.6	2717.5	2057.4	1806.9	1744.2	1768.3	1667.1	1532.2	1431.0	1397.3
40°	8668.1	5314.6	2351.3	1782.8	1604.5	1590.0	1667.1	1474.4	1228.7	1141.9	1093.7
42.5°	9251.1	5150.7	2067.0	1537.0	1445.5	1508.1	1522.6	1228.7	1088.9	1016.7	982.9
45°	9810.0	5184.5	1787.6	1272.0	1257.6	1349.1	1315.4	1040.7	958.8	905.8	934.7
47.5°	10884.5	5353.1	1512.9	1060.0	1132.3	1219.0	1021.5	929.9	852.8	814.3	819.1
50°	12546.8	5516.9	1272.0	968.5	1069.7	1103.4	876.9	843.2	838.4	761.3	756.5
52.5°	13544.2	5454.3	1228.7	1084.1	1146.7	1103.4	954.0	929.9	891.4	857.7	819.1
55°	15129.4	5637.4	1320.2	1267.2	1300.9	1060.0	1069.7	1060.0	1031.1	944.4	968.5
57.5°	16391.8	5757.8	1440.7	1416.6	1397.3	1103.4	1117.8	1122.7	1103.4	1064.8	1098.6
60°	18126.3	5998.7	1565.9	1570.8	1575.6	1199.7	1223.8	1252.8	1247.9	1233.5	1243.1
62.5°	19191.2	5887.9	1705.7	1782.8	1758.7	1397.3	1392.5	1411.8	1411.8	1435.8	1450.3
65°	19032.2	5478.4	1777.9	1970.7	1845.4	1541.8	1541.8	1551.5	1556.3	1604.5	1609.3
67°	18078.2	4746.0	1739.4	1999.6	1845.4	1599.7	1599.7	1609.3	1575.6	1700.9	1662.3
67.5°	17634.9	4529.2	1705.7	1975.5	1830.9	1594.8	1594.8	1599.7	1570.8	1691.2	1652.7
70°	15336.6	3363.2	1469.6	1749.0	1696.0	1551.5	1551.5	1522.6	1498.5	1657.5	1623.8
72.5°	13091.2	2442.9	1180.5	1488.8	1532.2	1493.7	1503.3	1431.0	1363.6	1474.4	1445.5
75°	10026.8	1797.2	920.3	1146.7	1296.1	1397.3	1459.9	1276.8	1190.1	1219.0	1166.0
77.5°	5594.0	1170.8	727.6	848.0	987.7	1300.9	1402.1	1151.6	973.3	939.6	939.6
80°	1898.4	684.2	534.8	631.2	679.4	1151.6	1310.6	934.7	766.1	732.4	708.3
82.5°	717.9	419.2	366.2	433.6	433.6	910.7	1069.7	717.9	578.2	746.8	761.3
85°	327.6	250.6	240.9	250.6	250.6	558.9	756.5	467.4	520.4	448.1	395.1
87.5°	130.1	120.5	110.8	106.0	86.7	96.4	260.2	125.3	236.1	62.6	57.8
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)