

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: P477107

Luminaire Tested: **IFLD-S-SA3E-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477107
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

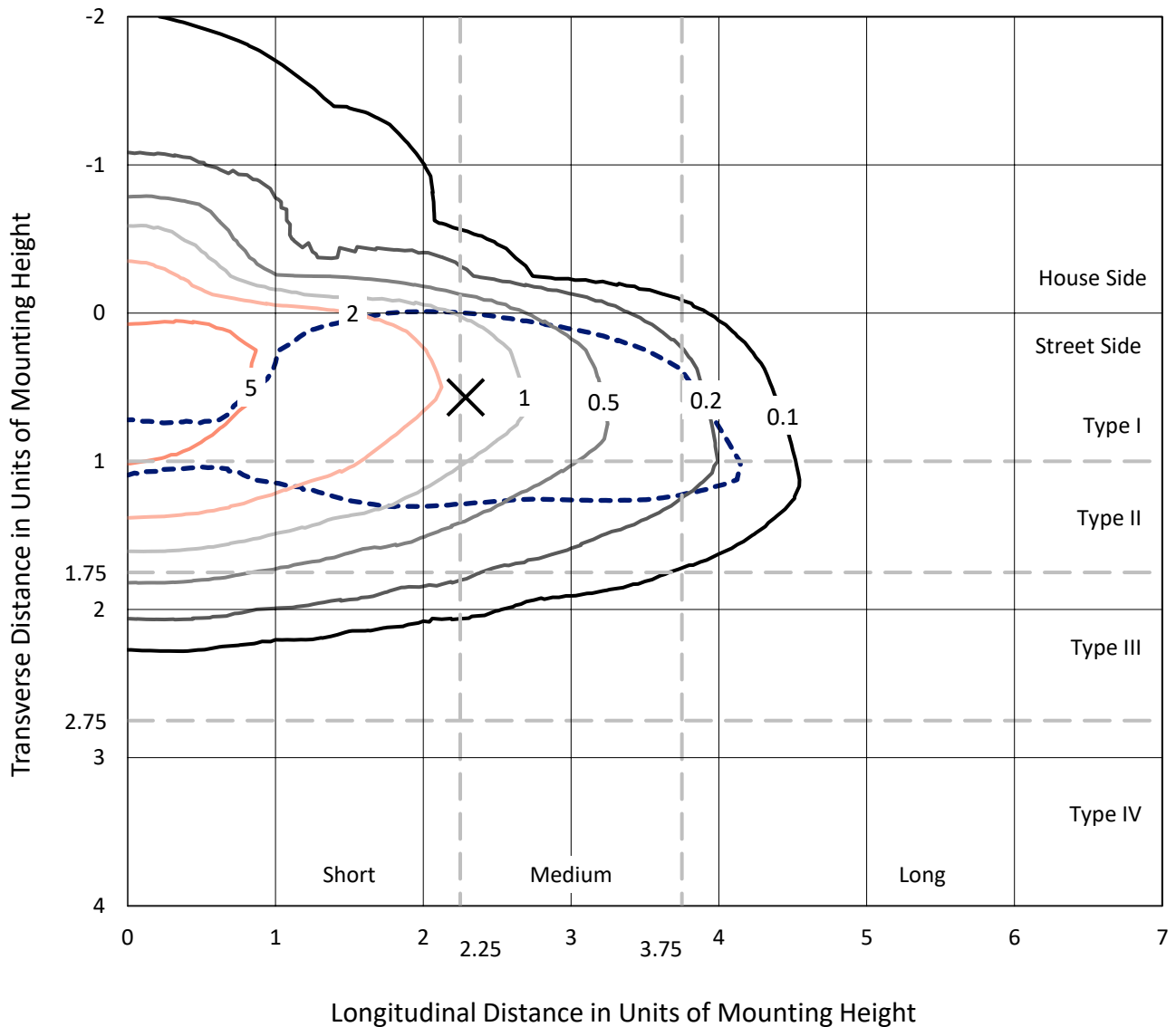
Lumens per Lamp: N/A
Luminaire Lumens: 19939.6 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 232.1
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

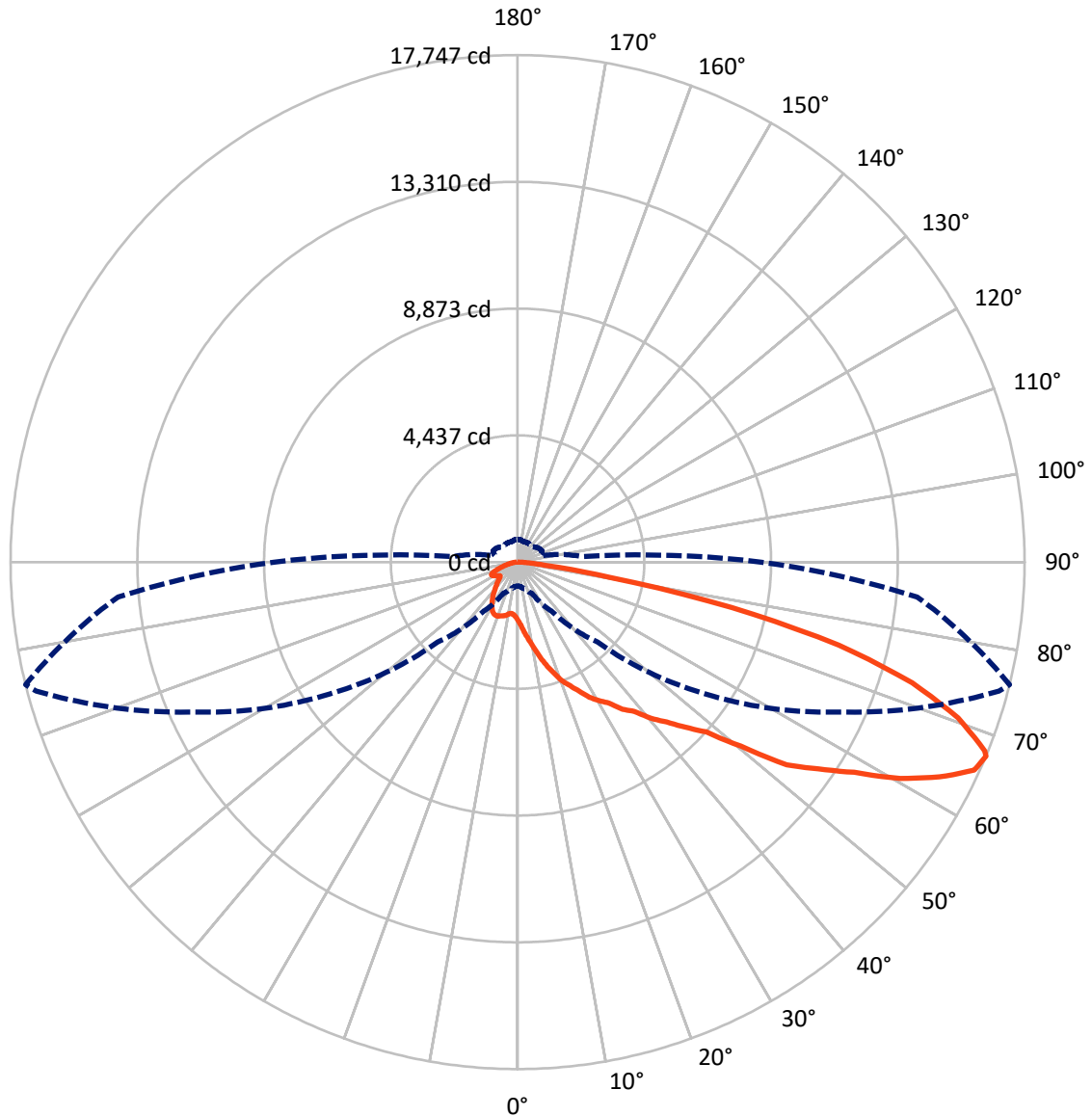
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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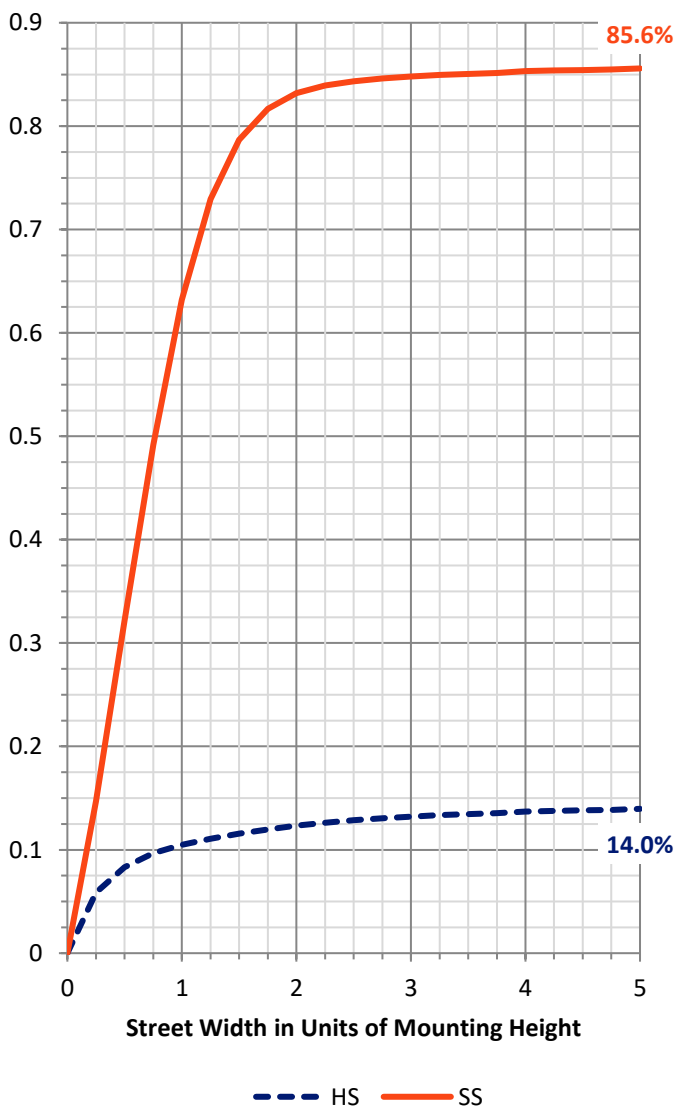
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2836.7	0.0	2836.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	17102.9	0.0	17102.9
	% Fixture	85.8	0.0	85.8
Total	Lumens	19939.6	0.0	19939.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.4	1.2
10°-20°	886.5	4.4
20°-30°	1648.1	8.3
30°-40°	2612.6	13.1
40°-50°	3613.5	18.1
50°-60°	4444.8	22.3
60°-70°	4136.1	20.7
70°-80°	2075.5	10.4
80°-90°	286.2	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°	19939.6	100.0
0°-180°	19939.6	100.0

Coefficient of Utilization



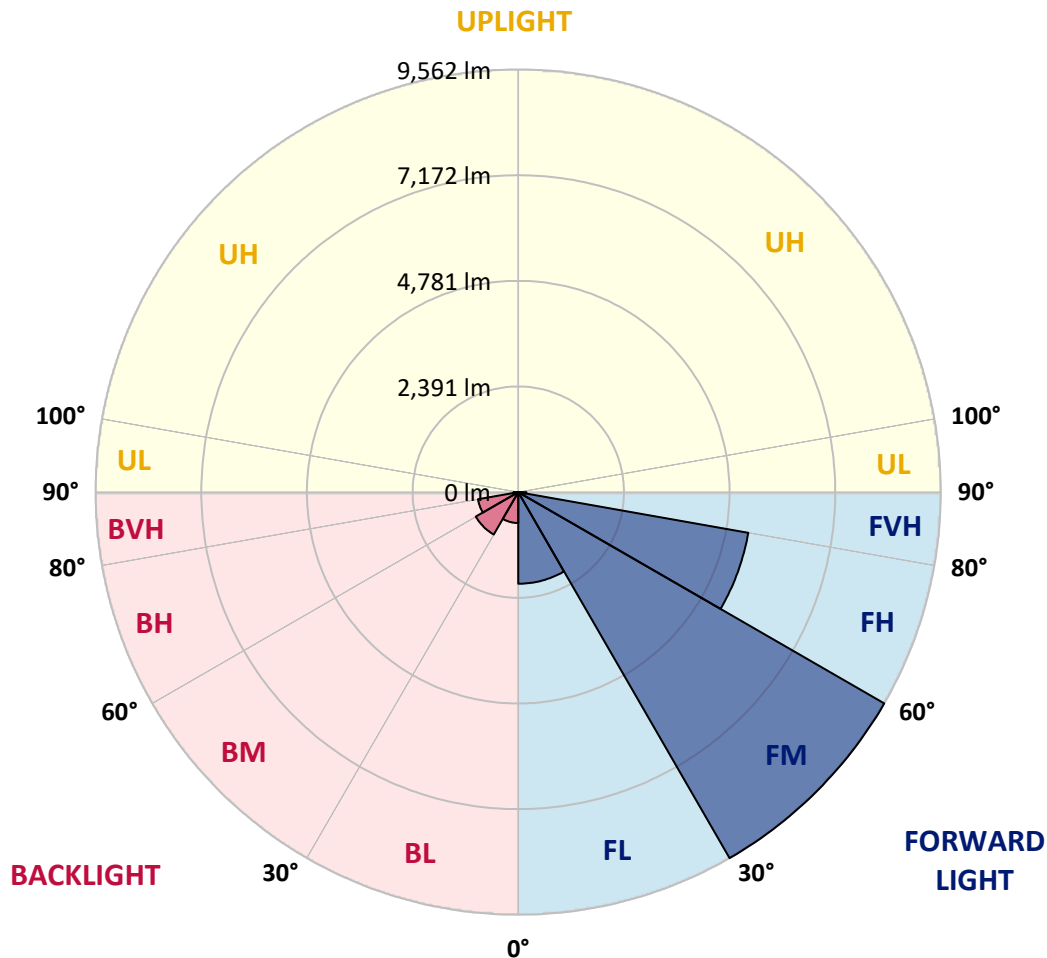
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2072.4	10.4			
FM (30°-60°)	9562.4	48.0			
FH (60°-80°)	5285.8	26.5			G3/7500
FVH (80°-90°)	182.3	0.9			G2/225
BL (0°-30°)	698.6	3.5	B2/1000		
BM (30°-60°)	1108.5	5.6	B2/2500		
BH (60°-80°)	925.7	4.6	B2/1000		G2/1000
BVH (80°-90°)	103.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2831.3	2797.2	2763.1	2690.4	2665.4	2597.2	2472.2	2333.6	2220.0	2204.1	2124.6
5°	3512.9	3463.0	3451.6	3410.7	3281.2	3149.4	2944.9	2722.2	2445.0	2465.4	2192.8
7.5°	4024.2	3994.7	3933.3	3894.7	3817.4	3642.5	3431.1	3135.7	2783.5	2715.4	2345.0
10°	4410.5	4369.6	4367.3	4333.2	4292.3	4112.8	3951.5	3553.8	3101.7	3008.5	2531.3
12.5°	4605.9	4599.1	4719.5	4719.5	4703.6	4628.6	4351.4	3987.9	3403.9	3372.1	2747.2
15°	4817.2	4760.4	4865.0	4944.5	4985.4	5024.0	4794.5	4410.5	3790.2	3728.8	2979.0
17.5°	4817.2	4812.7	4917.2	5049.0	5262.6	5312.6	5187.6	4799.1	4110.6	4065.1	3233.5
20°	4735.4	4801.3	4874.0	5051.3	5283.1	5485.3	5521.6	5196.7	4465.0	4428.7	3522.0
22.5°	5117.2	5053.6	5128.5	5196.7	5376.2	5683.0	5783.0	5546.6	4837.7	4699.1	3783.3
25°	5758.0	5714.8	5660.2	5560.3	5635.3	5769.3	5921.6	5805.7	5155.8	5001.3	4035.6
27.5°	6382.8	6385.1	6266.9	6048.8	5887.5	5914.7	6094.3	6032.9	5423.9	5355.8	4208.3
30°	7271.3	7216.8	7085.0	6789.6	6473.7	6214.7	6185.1	6244.2	5764.8	5633.0	4455.9
32.5°	7937.1	7948.4	7762.1	7337.2	6905.5	6694.1	6435.1	6460.1	5980.6	5882.9	4653.6
35°	8475.6	8462.0	8330.2	7978.0	7466.7	7212.2	6862.3	6719.1	6482.8	6328.3	4955.8
37.5°	9057.3	8946.0	8732.4	8334.7	8007.5	7655.3	7314.5	6991.8	6816.8	6630.5	5214.9
40°	9291.4	9291.4	9005.0	8823.3	8434.7	8168.8	7948.4	7350.8	7223.6	7187.2	5546.6
42.5°	9125.5	9227.7	9109.6	8902.8	8743.7	8407.4	8348.4	7723.5	7725.8	7653.0	5944.3
45°	9109.6	8968.7	8871.0	8923.2	8848.3	8830.1	8980.1	8239.3	8252.9	8243.8	6478.3
47.5°	8652.8	8589.2	8734.6	8821.0	8882.3	9164.1	9595.8	8855.1	8952.8	8884.6	7094.1
50°	8198.4	8187.0	8277.9	8591.5	8857.3	9320.9	10182.1	9804.9	10125.3	10120.7	8209.7
52.5°	6953.2	7073.6	7430.4	8093.9	8750.6	9534.5	10625.2	11018.3	11629.5	11795.4	9134.6
55°	5762.5	5698.9	6226.0	7189.5	8284.7	9618.6	11120.5	11747.7	12647.5	12767.9	10084.4
57.5°	4483.2	4601.4	5017.2	5942.0	7321.3	9202.7	11484.1	12468.0	13797.3	13890.4	11186.4
60°	3344.8	3360.7	3817.4	4562.7	6039.7	8264.3	11602.3	13206.5	15115.2	15381.1	12340.8
62.5°	2104.1	2199.6	2547.2	3281.2	4546.8	6950.9	11072.8	13654.1	16496.8	16567.2	13504.2
65°	1133.9	1195.2	1456.5	1917.8	3176.6	5258.1	9668.6	13386.0	17146.6	17564.7	14022.2
67°	838.5	849.8	970.3	1224.8	2124.6	3958.3	8062.1	12415.7	17442.0	17746.5	14042.7
67.5°	786.2	802.1	897.6	1099.8	1883.7	3644.7	7641.7	12070.4	17310.2	17637.4	13883.6
70°	672.6	677.1	699.9	756.7	1056.6	2192.8	5203.5	9891.2	16044.6	16358.1	12767.9
72.5°	597.6	602.2	611.2	622.6	715.8	1267.9	3165.3	7612.1	13945.0	14444.9	11016.0
75°	524.9	540.8	545.3	536.3	609.0	824.8	1683.8	5594.4	11375.0	11618.2	8566.5
77.5°	445.4	452.2	461.3	470.4	543.1	615.8	808.9	3776.5	7807.6	7659.9	4633.2
80°	374.9	377.2	384.0	390.8	470.4	470.4	459.0	2040.5	3410.7	3260.7	1565.6
82.5°	268.1	284.0	299.9	318.1	390.8	315.8	299.9	908.9	1079.3	1027.1	529.4
85°	104.5	127.2	197.7	218.1	247.7	170.4	200.0	393.1	449.9	445.4	197.7
87.5°	18.2	20.5	54.5	84.1	90.9	59.1	95.4	140.9	168.1	181.8	72.7
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°	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5	2040.5
2.5°	2058.7	1988.2	1904.2	1820.1	1765.6	1679.2	1672.4	1620.1	1613.3	1595.1	1604.2
5°	2074.6	1990.5	1820.1	1686.0	1624.7	1574.7	1586.1	1563.3	1556.5	1545.2	1527.0
7.5°	2199.6	2033.7	1779.2	1663.3	1617.9	1595.1	1595.1	1567.9	1547.4	1561.1	1574.7
10°	2281.4	2054.1	1811.0	1695.1	1658.8	1608.8	1627.0	1592.9	1604.2	1577.0	1577.0
12.5°	2413.2	2170.0	1876.9	1742.8	1683.8	1638.3	1656.5	1617.9	1608.8	1611.0	1604.2
15°	2590.4	2247.3	1906.4	1770.1	1729.2	1672.4	1658.8	1624.7	1590.6	1579.2	1592.9
17.5°	2756.3	2342.7	1926.9	1786.0	1720.1	1656.5	1640.6	1597.4	1586.1	1552.0	1524.7
20°	2954.0	2456.3	1954.2	1799.6	1686.0	1622.4	1581.5	1538.3	1499.7	1479.3	1488.3
22.5°	3085.8	2515.4	1967.8	1772.4	1636.0	1577.0	1490.6	1461.1	1406.5	1383.8	1365.6
25°	3301.6	2588.1	1933.7	1697.4	1547.4	1452.0	1374.7	1333.8	1295.2	1265.7	1256.6
27.5°	3356.2	2642.7	1854.2	1570.1	1406.5	1306.6	1240.7	1190.7	1165.7	1120.2	1111.1
30°	3515.2	2588.1	1736.0	1415.6	1272.5	1170.2	1104.3	1068.0	1008.9	997.5	972.5
32.5°	3617.5	2604.0	1586.1	1265.7	1118.0	1027.1	983.9	947.5	931.6	877.1	863.5
35°	3787.9	2549.5	1433.8	1127.1	990.7	920.3	883.9	872.6	820.3	795.3	772.6
37.5°	3897.0	2517.7	1281.6	970.3	852.1	822.6	833.9	786.2	722.6	674.9	659.0
40°	4087.8	2506.3	1108.9	840.7	756.7	749.9	786.2	695.3	579.4	538.5	515.8
42.5°	4362.8	2429.1	974.8	724.9	681.7	711.2	718.0	579.4	513.5	479.5	463.5
45°	4626.4	2445.0	843.0	599.9	593.1	636.2	620.3	490.8	452.2	427.2	440.8
47.5°	5133.1	2524.5	713.5	499.9	534.0	574.9	481.7	438.6	402.2	384.0	386.3
50°	5917.0	2601.8	599.9	456.7	504.4	520.4	413.6	397.6	395.4	359.0	356.7
52.5°	6387.4	2572.2	579.4	511.3	540.8	520.4	449.9	438.6	420.4	404.5	386.3
55°	7135.0	2658.6	622.6	597.6	613.5	499.9	504.4	499.9	486.3	445.4	456.7
57.5°	7730.3	2715.4	679.4	668.1	659.0	520.4	527.2	529.4	520.4	502.2	518.1
60°	8548.3	2829.0	738.5	740.8	743.0	565.8	577.2	590.8	588.5	581.7	586.2
62.5°	9050.5	2776.7	804.4	840.7	829.4	659.0	656.7	665.8	665.8	677.1	684.0
65°	8975.5	2583.6	838.5	929.4	870.3	727.1	727.1	731.7	733.9	756.7	758.9
67°	8525.6	2238.2	820.3	943.0	870.3	754.4	754.4	758.9	743.0	802.1	783.9
67.5°	8316.5	2135.9	804.4	931.6	863.5	752.1	752.1	754.4	740.8	797.6	779.4
70°	7232.7	1586.1	693.0	824.8	799.8	731.7	731.7	718.0	706.7	781.7	765.8
72.5°	6173.8	1152.0	556.7	702.1	722.6	704.4	709.0	674.9	643.1	695.3	681.7
75°	4728.6	847.6	434.0	540.8	611.2	659.0	688.5	602.2	561.3	574.9	549.9
77.5°	2638.1	552.2	343.1	399.9	465.8	613.5	661.2	543.1	459.0	443.1	443.1
80°	895.3	322.7	252.2	297.7	320.4	543.1	618.1	440.8	361.3	345.4	334.0
82.5°	338.6	197.7	172.7	204.5	204.5	429.5	504.4	338.6	272.7	352.2	359.0
85°	154.5	118.2	113.6	118.2	118.2	263.6	356.7	220.4	245.4	211.3	186.3
87.5°	61.4	56.8	52.3	50.0	40.9	45.4	122.7	59.1	111.3	29.5	27.3
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)