

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: P477104

Luminaire Tested: **IFLD-S-SA3B-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477104
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

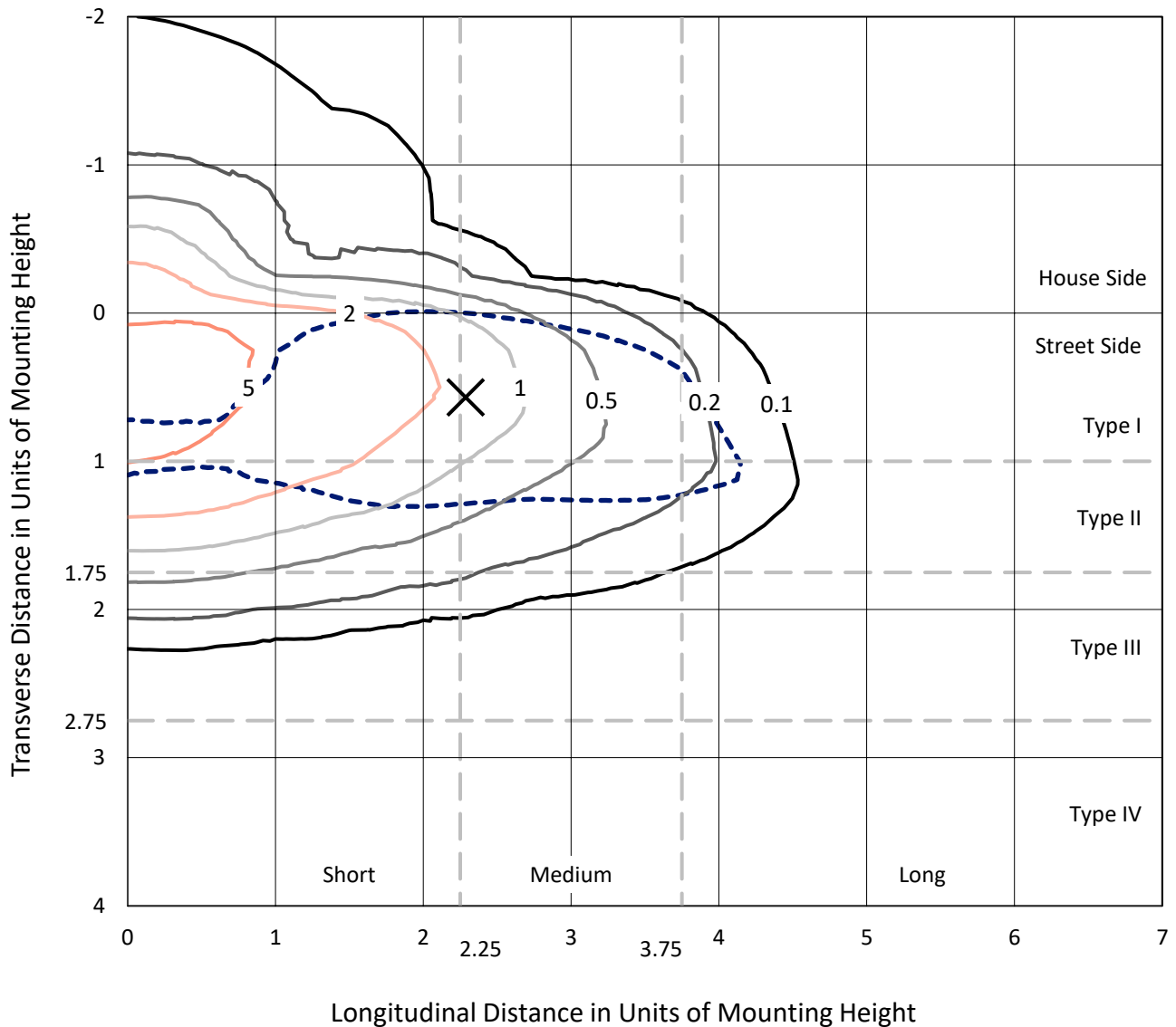
Lumens per Lamp: N/A
Luminaire Lumens: 12578.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 122.4
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

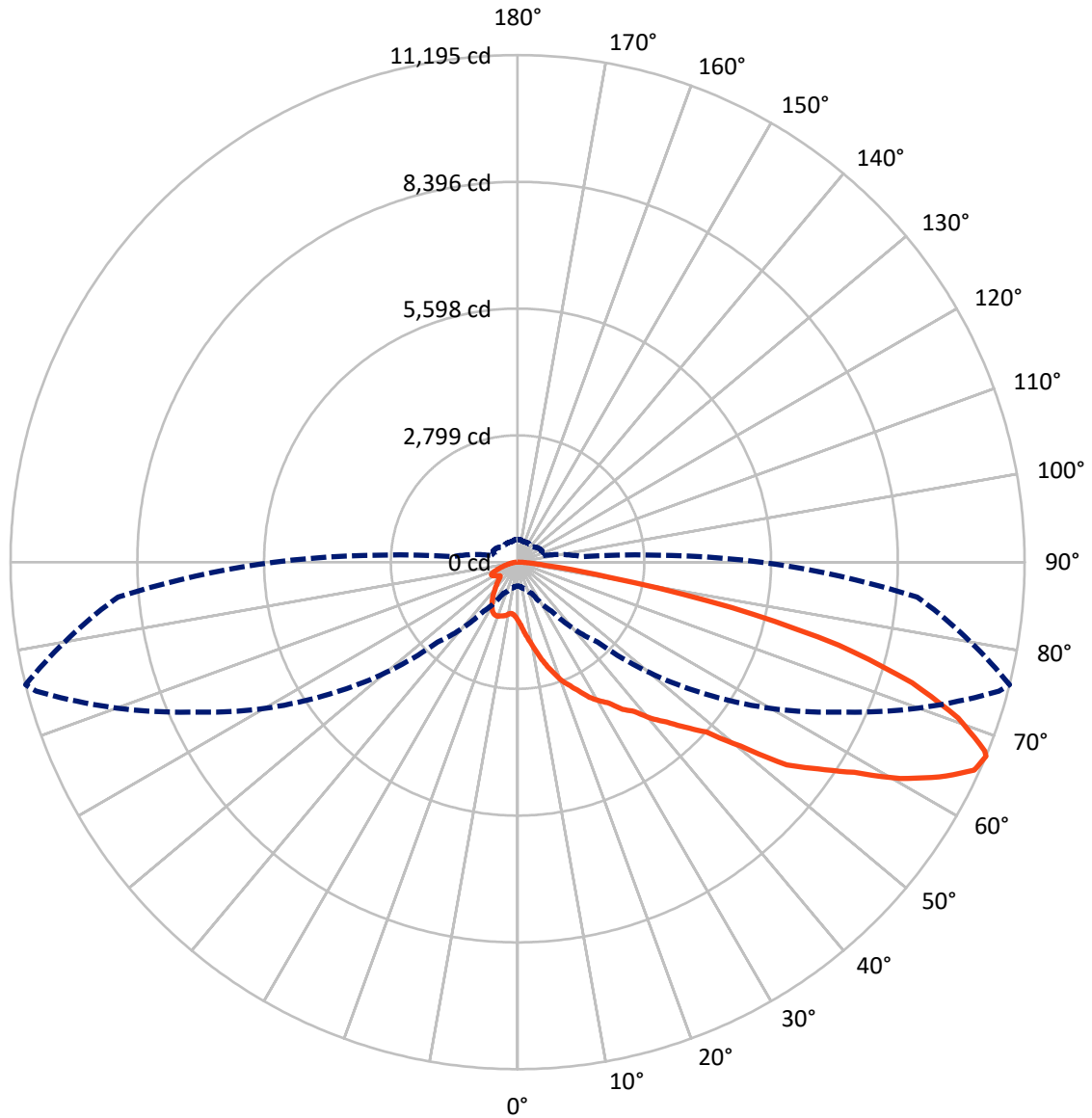
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.5 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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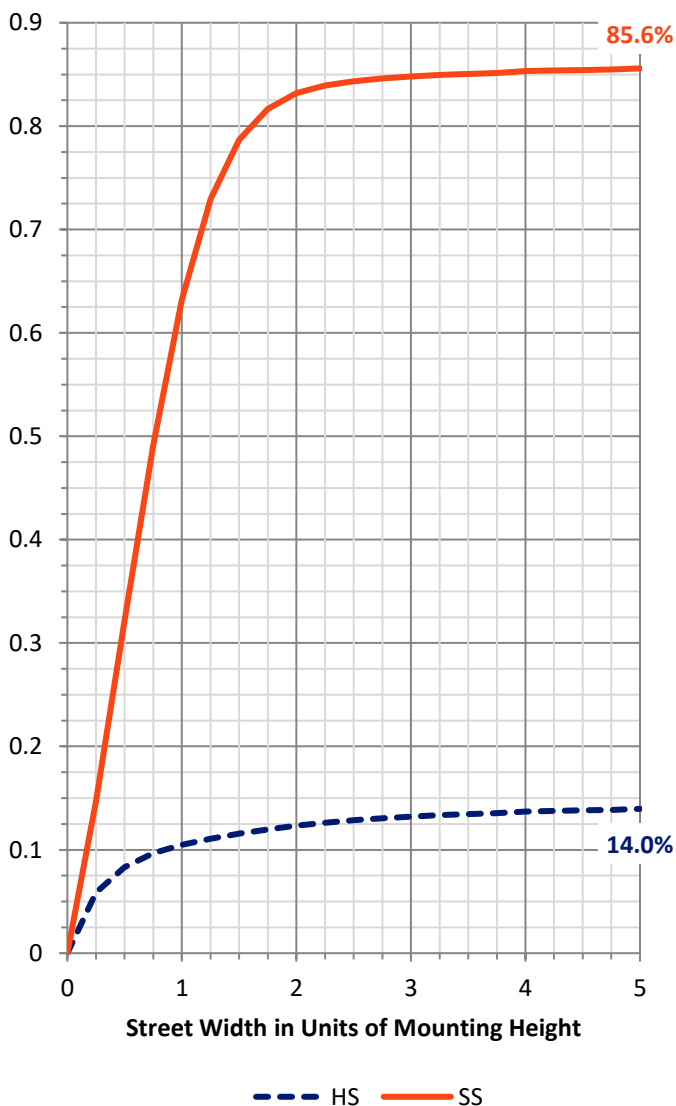
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1789.5	0.0	1789.5
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10789.2	0.0	10789.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	12578.7	0.0	12578.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	1.2
10°-20°	559.2	4.4
20°-30°	1039.7	8.3
30°-40°	1648.1	13.1
40°-50°	2279.5	18.1
50°-60°	2804.0	22.3
60°-70°	2609.2	20.7
70°-80°	1309.3	10.4
80°-90°	180.5	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°	12578.7	100.0
0°-180°	12578.7	100.0

Coefficient of Utilization



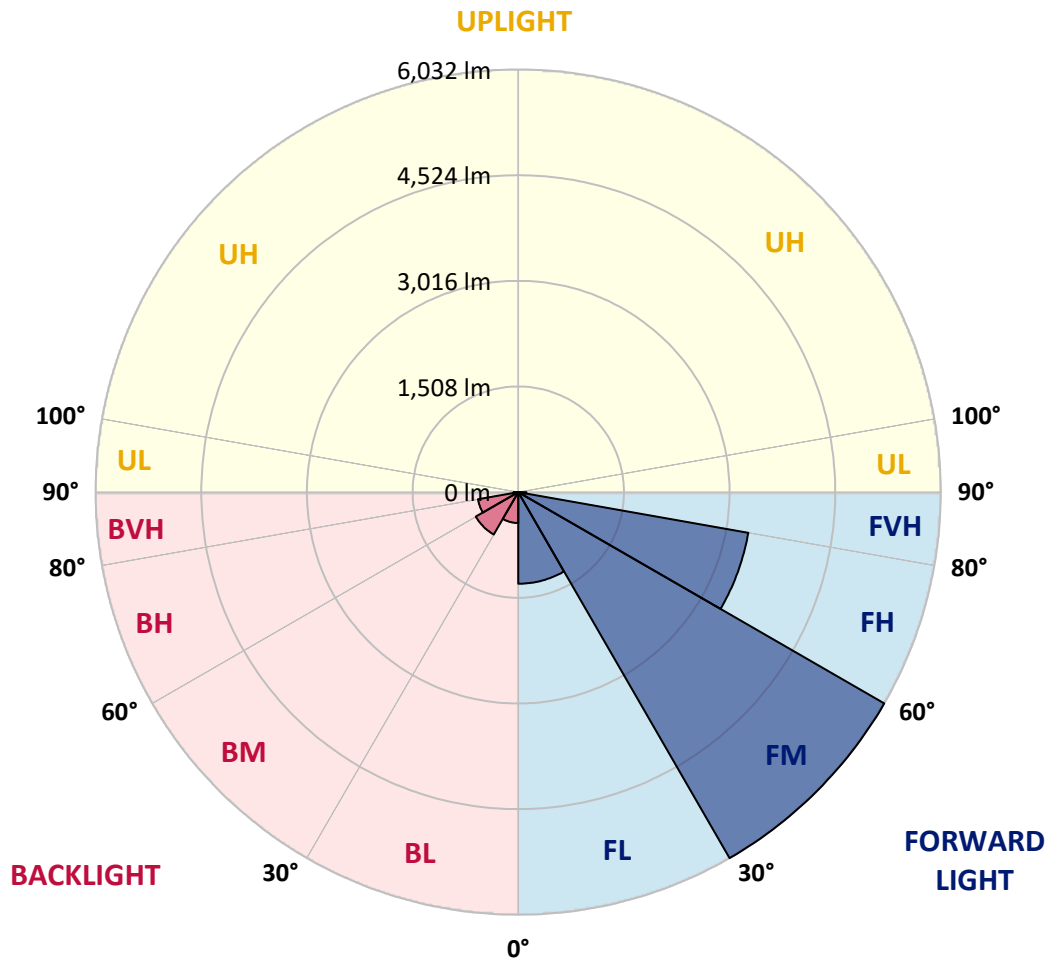
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1307.3	10.4			
FM (30°-60°)	6032.3	48.0			
FH (60°-80°)	3334.5	26.5			G2/5000
FVH (80°-90°)	115.0	0.9			G2/225
BL (0°-30°)	440.7	3.5	B1/500		
BM (30°-60°)	699.3	5.6	B1/1000		
BH (60°-80°)	584.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	65.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2
2.5°	1786.1	1764.6	1743.1	1697.2	1681.4	1638.4	1559.6	1472.1	1400.5	1390.4	1340.3
5°	2216.1	2184.6	2177.4	2151.6	2069.9	1986.8	1857.7	1717.3	1542.4	1555.3	1383.3
7.5°	2538.6	2520.0	2481.3	2456.9	2408.2	2297.8	2164.5	1978.2	1756.0	1713.0	1479.3
10°	2782.3	2756.5	2755.1	2733.6	2707.8	2594.5	2492.8	2241.9	1956.7	1897.9	1596.9
12.5°	2905.6	2901.3	2977.3	2977.3	2967.2	2919.9	2745.0	2515.7	2147.3	2127.2	1733.0
15°	3038.9	3003.1	3069.0	3119.2	3145.0	3169.3	3024.6	2782.3	2391.0	2352.3	1879.2
17.5°	3038.9	3036.0	3102.0	3185.1	3319.9	3351.4	3272.6	3027.4	2593.1	2564.4	2039.8
20°	2987.3	3028.9	3074.7	3186.5	3332.8	3460.3	3483.3	3278.3	2816.7	2793.8	2221.8
22.5°	3228.1	3188.0	3235.3	3278.3	3391.5	3585.0	3648.1	3499.0	3051.8	2964.4	2386.7
25°	3632.3	3605.1	3570.7	3507.6	3554.9	3639.5	3735.6	3662.5	3252.5	3155.0	2545.8
27.5°	4026.5	4028.0	3953.4	3815.8	3714.1	3731.3	3844.5	3805.8	3421.6	3378.6	2654.7
30°	4587.0	4552.6	4469.5	4283.1	4083.9	3920.5	3901.8	3939.1	3636.7	3553.5	2811.0
32.5°	5007.0	5014.2	4896.6	4628.6	4356.2	4222.9	4059.5	4075.3	3772.8	3711.2	2935.7
35°	5346.8	5338.1	5255.0	5032.8	4710.3	4549.8	4329.0	4238.7	4089.6	3992.1	3126.3
37.5°	5713.7	5643.5	5508.7	5257.9	5051.5	4829.3	4614.3	4410.7	4300.3	4182.8	3289.8
40°	5861.4	5861.4	5680.7	5566.1	5320.9	5153.2	5014.2	4637.2	4556.9	4534.0	3499.0
42.5°	5756.7	5821.2	5746.7	5616.2	5515.9	5303.7	5266.5	4872.3	4873.7	4827.8	3749.9
45°	5746.7	5657.8	5596.2	5629.1	5581.8	5570.4	5665.0	5197.7	5206.3	5200.5	4086.8
47.5°	5458.6	5418.4	5510.2	5564.6	5603.3	5781.1	6053.4	5586.1	5647.8	5604.8	4475.2
50°	5171.9	5164.7	5222.0	5419.9	5587.6	5880.0	6423.3	6185.3	6387.4	6384.6	5179.0
52.5°	4386.3	4462.3	4687.4	5105.9	5520.2	6014.7	6702.8	6950.8	7336.4	7441.0	5762.4
55°	3635.2	3595.1	3927.6	4535.4	5226.3	6067.8	7015.3	7410.9	7978.6	8054.5	6361.6
57.5°	2828.2	2902.7	3165.0	3748.5	4618.6	5805.5	7244.6	7865.3	8703.9	8762.6	7056.9
60°	2110.0	2120.1	2408.2	2878.4	3810.1	5213.4	7319.2	8331.2	9535.3	9703.0	7785.0
62.5°	1327.4	1387.6	1606.9	2069.9	2868.3	4384.9	6985.2	8613.6	10406.8	10451.2	8519.0
65°	715.3	754.0	918.8	1209.8	2004.0	3317.0	6099.3	8444.4	10816.8	11080.5	8845.8
67°	528.9	536.1	612.1	772.6	1340.3	2497.1	5085.9	7832.3	11003.1	11195.2	8858.7
67.5°	496.0	506.0	566.2	693.8	1188.3	2299.2	4820.7	7614.5	10920.0	11126.4	8758.3
70°	424.3	427.2	441.5	477.3	666.6	1383.3	3282.6	6239.8	10121.6	10319.4	8054.5
72.5°	377.0	379.9	385.6	392.8	451.5	799.9	1996.8	4802.0	8797.1	9112.4	6949.3
75°	331.1	341.2	344.0	338.3	384.2	520.3	1062.2	3529.1	7175.8	7329.2	5404.1
77.5°	281.0	285.3	291.0	296.7	342.6	388.5	510.3	2382.4	4925.3	4832.1	2922.8
80°	236.5	238.0	242.3	246.6	296.7	296.7	289.6	1287.2	2151.6	2057.0	987.6
82.5°	169.1	179.2	189.2	200.7	246.6	199.2	189.2	573.4	680.9	647.9	334.0
85°	65.9	80.3	124.7	137.6	156.2	107.5	126.1	248.0	283.8	281.0	124.7
87.5°	11.5	12.9	34.4	53.0	57.3	37.3	60.2	88.9	106.1	114.7	45.9
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°	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2	1287.2
2.5°	1298.7	1254.3	1201.2	1148.2	1113.8	1059.3	1055.0	1022.0	1017.7	1006.3	1012.0
5°	1308.7	1255.7	1148.2	1063.6	1024.9	993.4	1000.5	986.2	981.9	974.7	963.3
7.5°	1387.6	1282.9	1122.4	1049.3	1020.6	1006.3	1006.3	989.1	976.2	984.8	993.4
10°	1439.2	1295.8	1142.5	1069.4	1046.4	1014.9	1026.3	1004.8	1012.0	994.8	994.8
12.5°	1522.3	1368.9	1184.0	1099.5	1062.2	1033.5	1045.0	1020.6	1014.9	1016.3	1012.0
15°	1634.1	1417.7	1202.7	1116.7	1090.9	1055.0	1046.4	1024.9	1003.4	996.2	1004.8
17.5°	1738.8	1477.9	1215.6	1126.7	1085.1	1045.0	1034.9	1007.7	1000.5	979.0	961.8
20°	1863.5	1549.6	1232.8	1135.3	1063.6	1023.5	997.7	970.4	946.1	933.2	938.9
22.5°	1946.6	1586.8	1241.4	1118.1	1032.1	994.8	940.3	921.7	887.3	873.0	861.5
25°	2082.8	1632.7	1219.9	1070.8	976.2	916.0	867.2	841.4	817.1	798.4	792.7
27.5°	2117.2	1667.1	1169.7	990.5	887.3	824.2	782.7	751.1	735.4	706.7	701.0
30°	2217.5	1632.7	1095.2	893.0	802.7	738.2	696.7	673.7	636.4	629.3	613.5
32.5°	2282.0	1642.7	1000.5	798.4	705.3	647.9	620.7	597.7	587.7	553.3	544.7
35°	2389.6	1608.3	904.5	711.0	625.0	580.5	557.6	550.4	517.5	501.7	487.4
37.5°	2458.4	1588.3	808.5	612.1	537.5	518.9	526.1	496.0	455.8	425.7	415.7
40°	2578.8	1581.1	699.5	530.4	477.3	473.0	496.0	438.6	365.5	339.7	325.4
42.5°	2752.2	1532.4	614.9	457.3	430.0	448.7	453.0	365.5	324.0	302.5	292.4
45°	2918.5	1542.4	531.8	378.4	374.1	401.4	391.3	309.6	285.3	269.5	278.1
47.5°	3238.2	1592.6	450.1	315.4	336.9	362.7	303.9	276.7	253.7	242.3	243.7
50°	3732.7	1641.3	378.4	288.1	318.2	328.3	260.9	250.9	249.4	226.5	225.1
52.5°	4029.4	1622.7	365.5	322.5	341.2	328.3	283.8	276.7	265.2	255.2	243.7
55°	4501.0	1677.1	392.8	377.0	387.0	315.4	318.2	315.4	306.8	281.0	288.1
57.5°	4876.6	1713.0	428.6	421.4	415.7	328.3	332.6	334.0	328.3	316.8	326.8
60°	5392.6	1784.6	465.9	467.3	468.7	356.9	364.1	372.7	371.3	367.0	369.8
62.5°	5709.4	1751.7	507.4	530.4	523.2	415.7	414.3	420.0	420.0	427.2	431.5
65°	5662.1	1629.8	528.9	586.3	549.0	458.7	458.7	461.6	463.0	477.3	478.8
67°	5378.3	1411.9	517.5	594.9	549.0	475.9	475.9	478.8	468.7	506.0	494.5
67.5°	5246.4	1347.4	507.4	587.7	544.7	474.5	474.5	475.9	467.3	503.1	491.7
70°	4562.7	1000.5	437.2	520.3	504.6	461.6	461.6	453.0	445.8	493.1	483.1
72.5°	3894.7	726.8	351.2	442.9	455.8	444.4	447.2	425.7	405.7	438.6	430.0
75°	2983.0	534.7	273.8	341.2	385.6	415.7	434.3	379.9	354.1	362.7	346.9
77.5°	1664.2	348.3	216.5	252.3	293.9	387.0	417.1	342.6	289.6	279.5	279.5
80°	564.8	203.5	159.1	187.8	202.1	342.6	389.9	278.1	227.9	217.9	210.7
82.5°	213.6	124.7	108.9	129.0	129.0	270.9	318.2	213.6	172.0	222.2	226.5
85°	97.5	74.5	71.7	74.5	74.5	166.3	225.1	139.0	154.8	133.3	117.5
87.5°	38.7	35.8	33.0	31.5	25.8	28.7	77.4	37.3	70.2	18.6	17.2
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)