

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: P477102

Luminaire Tested: **IFLD-S-SA2E-827-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477102
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-827-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

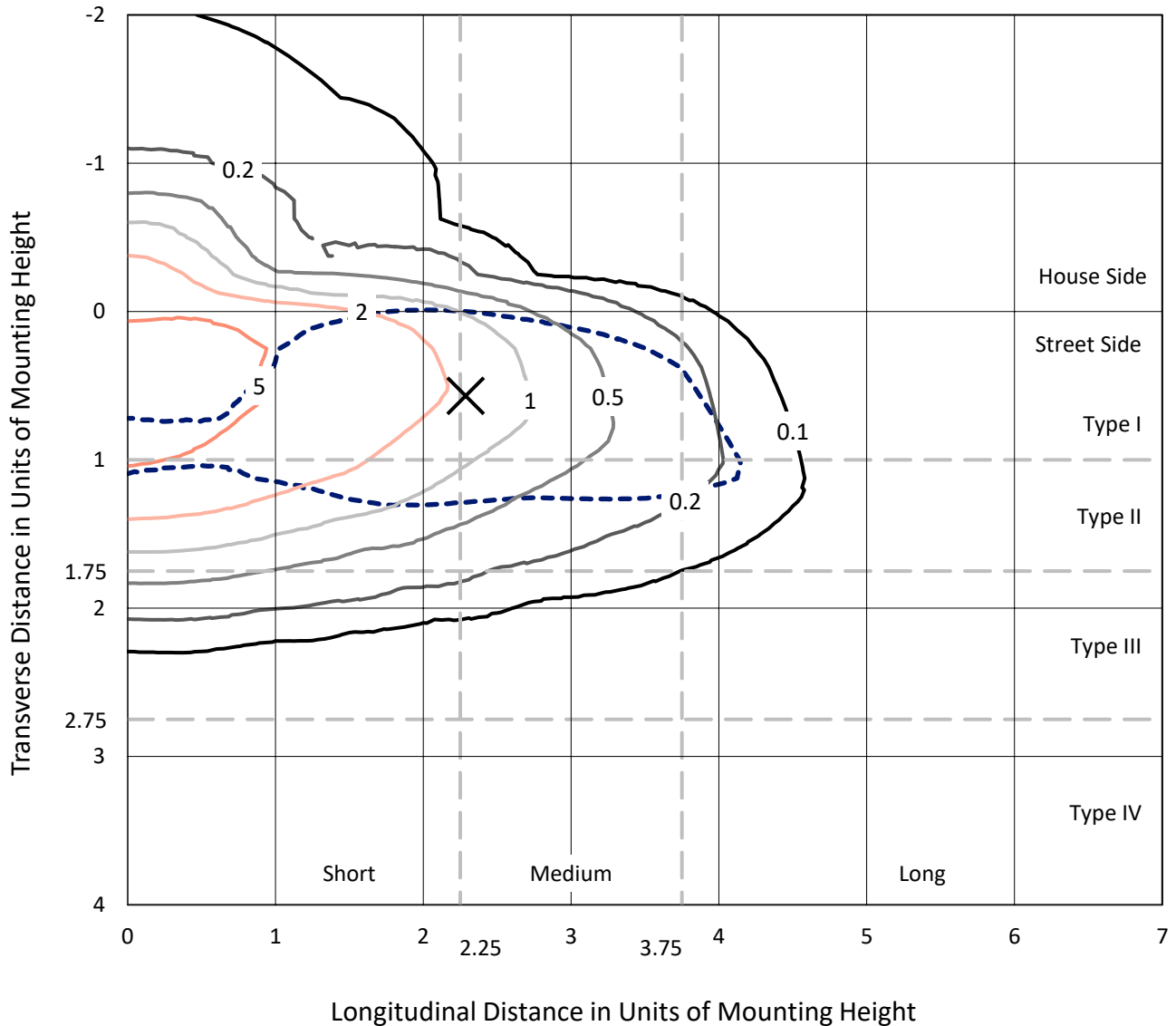
Lumens per Lamp: N/A
Luminaire Lumens: 13379.6 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 156.2
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

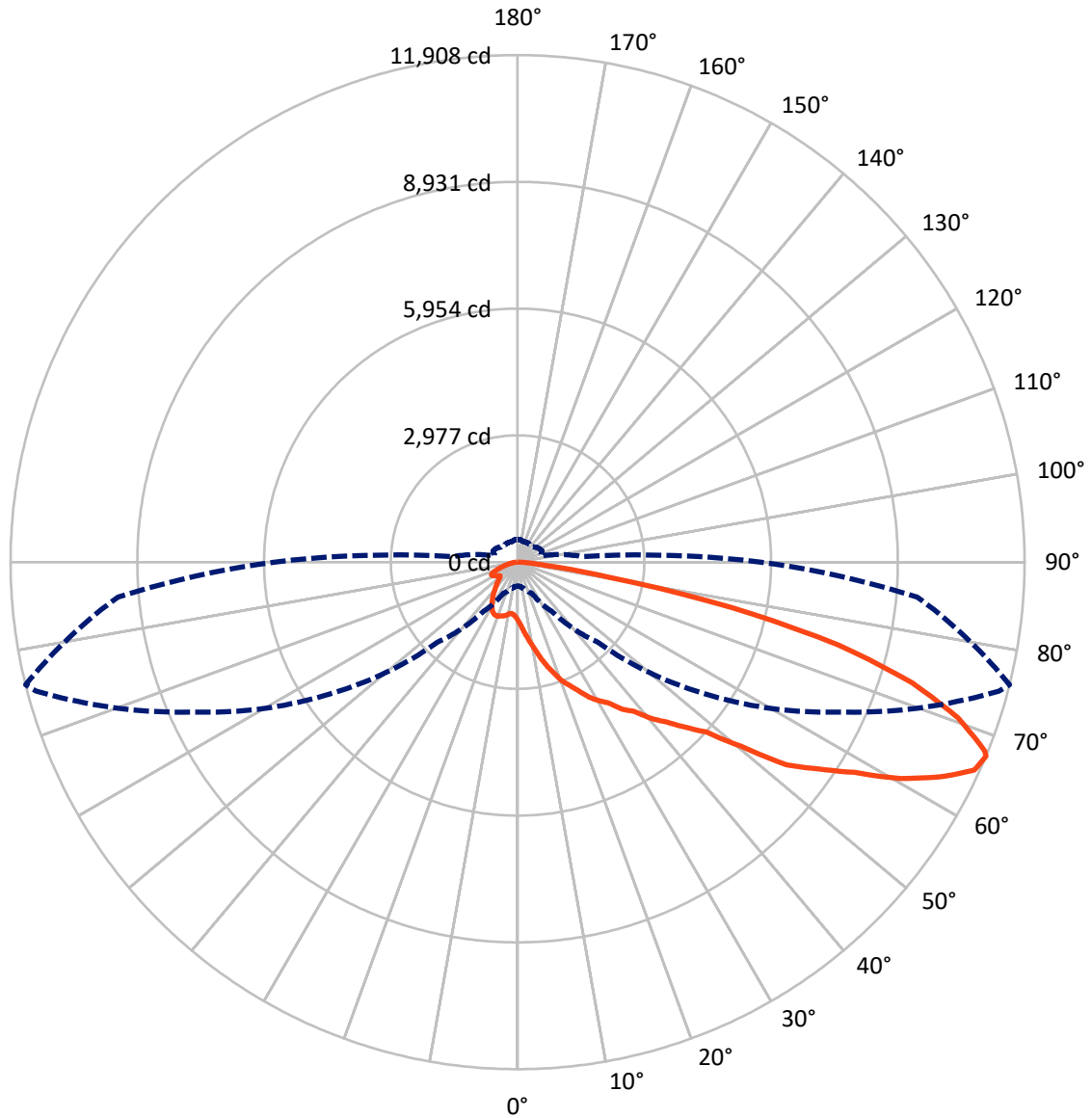
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 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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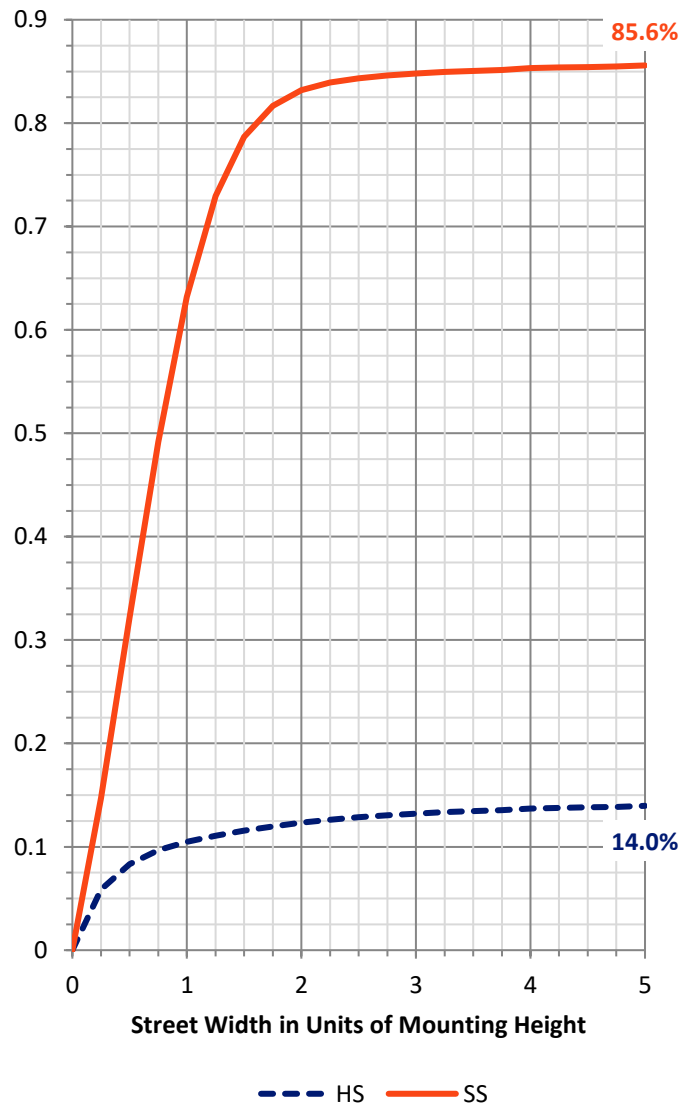
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1903.4	0.0	1903.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	11476.2	0.0	11476.2
	% Fixture	85.8	0.0	85.8
Total	Lumens	13379.6	0.0	13379.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	1.2
10°-20°	594.8	4.4
20°-30°	1105.9	8.3
30°-40°	1753.1	13.1
40°-50°	2424.7	18.1
50°-60°	2982.5	22.3
60°-70°	2775.4	20.7
70°-80°	1392.7	10.4
80°-90°	192.0	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°	13379.6	100.0
0°-180°	13379.6	100.0

Coefficient of Utilization



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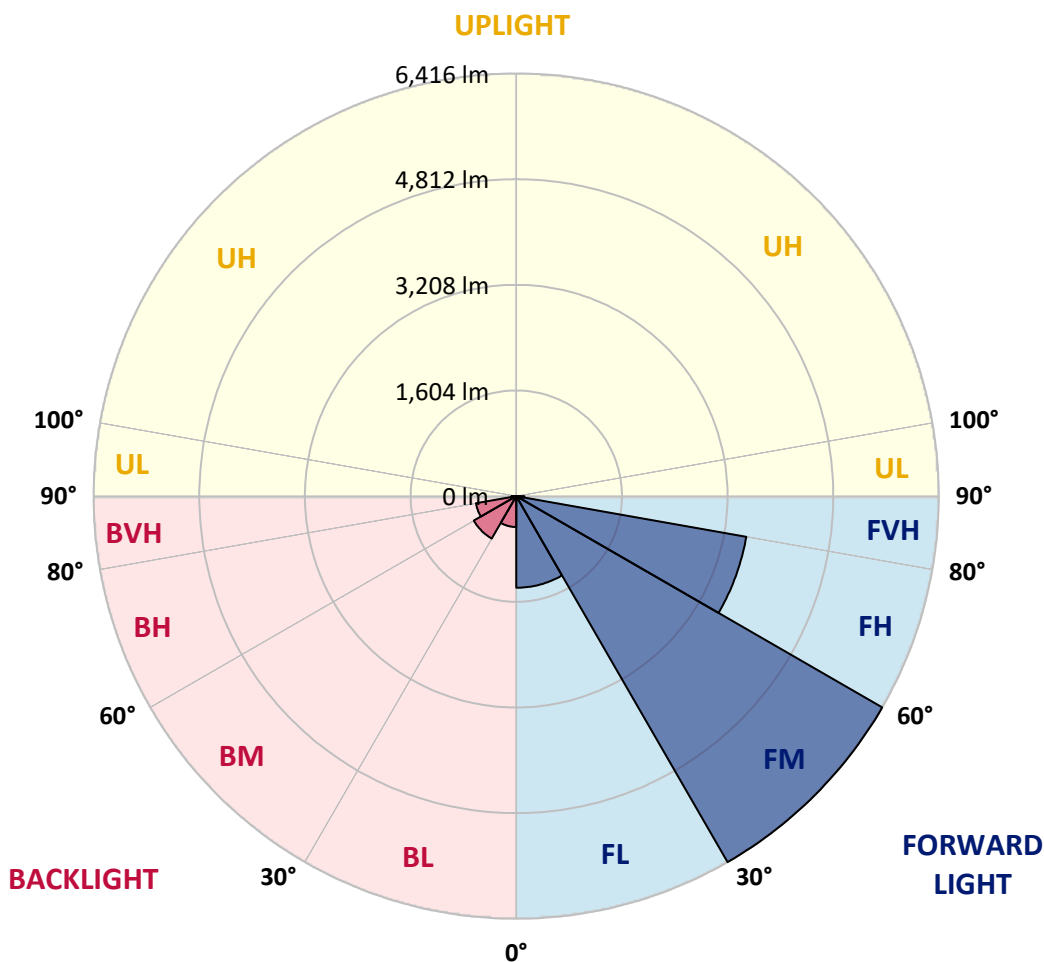
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.6	10.4			
FM (30°-60°)	6416.4	48.0			
FH (60°-80°)	3546.8	26.5			G2/5000
FVH (80°-90°)	122.3	0.9			G2/225
BL (0°-30°)	468.7	3.5	B1/500		
BM (30°-60°)	743.8	5.6	B1/1000		
BH (60°-80°)	621.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	69.7	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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1899.8	1876.9	1854.1	1805.3	1788.5	1742.8	1658.9	1565.9	1489.7	1479.0	1425.6
5°	2357.2	2323.7	2316.1	2288.6	2201.7	2113.3	1976.0	1826.6	1640.6	1654.3	1471.4
7.5°	2700.3	2680.5	2639.3	2613.4	2561.5	2444.1	2302.3	2104.1	1867.8	1822.0	1573.5
10°	2959.5	2932.0	2930.5	2907.6	2880.2	2759.7	2651.5	2384.7	2081.2	2018.7	1698.5
12.5°	3090.6	3086.0	3166.8	3166.8	3156.2	3105.9	2919.8	2675.9	2284.0	2262.7	1843.4
15°	3232.4	3194.3	3264.4	3317.8	3345.2	3371.2	3217.2	2959.5	2543.2	2502.1	1998.9
17.5°	3232.4	3229.4	3299.5	3387.9	3531.3	3564.8	3480.9	3220.2	2758.2	2727.7	2169.7
20°	3177.5	3221.7	3270.5	3389.5	3545.0	3680.7	3705.1	3487.0	2996.1	2971.7	2363.3
22.5°	3433.7	3391.0	3441.3	3487.0	3607.5	3813.3	3880.4	3721.8	3246.1	3153.1	2538.7
25°	3863.6	3834.7	3798.1	3731.0	3781.3	3871.3	3973.4	3895.7	3459.6	3355.9	2707.9
27.5°	4282.9	4284.5	4205.2	4058.8	3950.6	3968.8	4089.3	4048.1	3639.5	3593.8	2823.8
30°	4879.1	4842.5	4754.1	4555.9	4343.9	4170.1	4150.3	4189.9	3868.2	3779.8	2990.0
32.5°	5325.9	5333.5	5208.4	4923.3	4633.6	4491.8	4318.0	4334.8	4013.1	3947.5	3122.6
35°	5687.2	5678.1	5589.6	5353.3	5010.2	4839.5	4604.7	4508.6	4350.0	4246.3	3325.4
37.5°	6077.5	6002.8	5859.5	5592.7	5373.1	5136.8	4908.1	4691.6	4574.2	4449.1	3499.2
40°	6234.6	6234.6	6042.5	5920.5	5659.8	5481.4	5333.5	4932.5	4847.1	4822.7	3721.8
42.5°	6123.3	6191.9	6112.6	5973.9	5867.1	5641.5	5601.8	5182.5	5184.1	5135.3	3988.7
45°	6112.6	6018.1	5952.5	5987.6	5937.3	5925.1	6025.7	5528.6	5537.8	5531.7	4347.0
47.5°	5806.1	5763.4	5861.0	5919.0	5960.1	6149.2	6438.9	5941.8	6007.4	5961.7	4760.2
50°	5501.2	5493.6	5554.6	5765.0	5943.4	6254.4	6832.3	6579.2	6794.2	6791.1	5508.8
52.5°	4665.6	4746.5	4985.8	5431.1	5871.7	6397.7	7129.6	7393.4	7803.5	7914.8	6129.4
55°	3866.7	3824.0	4177.7	4824.2	5559.1	6454.1	7462.0	7882.8	8486.6	8567.4	6766.7
57.5°	3008.3	3087.6	3366.6	3987.1	4912.7	6175.1	7705.9	8366.1	9258.1	9320.6	7506.2
60°	2244.4	2255.1	2561.5	3061.6	4052.7	5545.4	7785.2	8861.7	10142.4	10320.8	8280.8
62.5°	1411.9	1475.9	1709.2	2201.7	3051.0	4664.1	7430.0	9162.0	11069.5	11116.7	9061.4
65°	760.8	802.0	977.3	1286.9	2131.6	3528.2	6487.7	8982.1	11505.5	11786.1	9409.1
67°	562.6	570.2	651.1	821.8	1425.6	2656.1	5409.7	8331.1	11703.8	11908.1	9422.8
67.5°	527.6	538.2	602.3	738.0	1264.0	2445.7	5127.6	8099.3	11615.3	11834.9	9316.0
70°	451.3	454.4	469.6	507.7	709.0	1471.4	3491.6	6637.1	10766.1	10976.5	8567.4
72.5°	401.0	404.1	410.1	417.8	480.3	850.8	2123.9	5107.8	9357.2	9692.7	7391.8
75°	352.2	362.9	365.9	359.8	408.6	553.5	1129.8	3753.9	7632.8	7795.9	5748.2
77.5°	298.8	303.4	309.5	315.6	364.4	413.2	542.8	2534.1	5238.9	5139.8	3108.9
80°	251.6	253.1	257.7	262.3	315.6	315.6	308.0	1369.2	2288.6	2188.0	1050.5
82.5°	179.9	190.6	201.3	213.5	262.3	211.9	201.3	609.9	724.2	689.2	355.3
85°	70.1	85.4	132.7	146.4	166.2	114.4	134.2	263.8	301.9	298.8	132.7
87.5°	12.2	13.7	36.6	56.4	61.0	39.6	64.0	94.5	112.8	122.0	48.8
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°	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2	1369.2
2.5°	1381.4	1334.1	1277.7	1221.3	1184.7	1126.8	1122.2	1087.1	1082.6	1070.4	1076.5
5°	1392.1	1335.7	1221.3	1131.3	1090.2	1056.6	1064.3	1049.0	1044.4	1036.8	1024.6
7.5°	1475.9	1364.6	1193.9	1116.1	1085.6	1070.4	1070.4	1052.1	1038.3	1047.5	1056.6
10°	1530.8	1378.3	1215.2	1137.4	1113.0	1079.5	1091.7	1068.8	1076.5	1058.2	1058.2
12.5°	1619.3	1456.1	1259.4	1169.5	1129.8	1099.3	1111.5	1085.6	1079.5	1081.0	1076.5
15°	1738.2	1507.9	1279.2	1187.8	1160.3	1122.2	1113.0	1090.2	1067.3	1059.7	1068.8
17.5°	1849.5	1572.0	1293.0	1198.4	1154.2	1111.5	1100.8	1071.9	1064.3	1041.4	1023.1
20°	1982.1	1648.2	1311.3	1207.6	1131.3	1088.7	1061.2	1032.2	1006.3	992.6	998.7
22.5°	2070.6	1687.9	1320.4	1189.3	1097.8	1058.2	1000.2	980.4	943.8	928.6	916.4
25°	2215.4	1736.7	1297.5	1139.0	1038.3	974.3	922.5	895.0	869.1	849.3	843.2
27.5°	2252.0	1773.3	1244.2	1053.6	943.8	876.7	832.5	799.0	782.2	751.7	745.6
30°	2358.7	1736.7	1164.9	949.9	853.8	785.2	741.0	716.6	677.0	669.4	652.6
32.5°	2427.4	1747.3	1064.3	849.3	750.2	689.2	660.2	635.8	625.1	588.5	579.4
35°	2541.7	1710.7	962.1	756.3	664.8	617.5	593.1	585.5	550.4	533.7	518.4
37.5°	2614.9	1689.4	859.9	651.1	571.8	551.9	559.6	527.6	484.9	452.8	442.2
40°	2743.0	1681.8	744.1	564.1	507.7	503.2	527.6	466.6	388.8	361.4	346.1
42.5°	2927.5	1629.9	654.1	486.4	457.4	477.2	481.8	388.8	344.6	321.7	311.0
45°	3104.3	1640.6	565.7	402.5	398.0	426.9	416.2	329.3	303.4	286.6	295.8
47.5°	3444.3	1694.0	478.8	335.4	358.3	385.8	323.2	294.3	269.9	257.7	259.2
50°	3970.4	1745.8	402.5	306.5	338.5	349.2	277.5	266.8	265.3	240.9	239.4
52.5°	4286.0	1726.0	388.8	343.1	362.9	349.2	301.9	294.3	282.1	271.4	259.2
55°	4787.6	1783.9	417.8	401.0	411.7	335.4	338.5	335.4	326.3	298.8	306.5
57.5°	5187.1	1822.0	455.9	448.3	442.2	349.2	353.7	355.3	349.2	337.0	347.6
60°	5736.0	1898.3	495.5	497.1	498.6	379.7	387.3	396.4	394.9	390.3	393.4
62.5°	6073.0	1863.2	539.8	564.1	556.5	442.2	440.6	446.7	446.7	454.4	458.9
65°	6022.6	1733.6	562.6	623.6	584.0	487.9	487.9	491.0	492.5	507.7	509.3
67°	5720.8	1501.9	550.4	632.8	584.0	506.2	506.2	509.3	498.6	538.2	526.0
67.5°	5580.5	1433.2	539.8	625.1	579.4	504.7	504.7	506.2	497.1	535.2	523.0
70°	4853.2	1064.3	465.0	553.5	536.7	491.0	491.0	481.8	474.2	524.5	513.8
72.5°	4142.7	773.0	373.6	471.1	484.9	472.7	475.7	452.8	431.5	466.6	457.4
75°	3172.9	568.7	291.2	362.9	410.1	442.2	462.0	404.1	376.6	385.8	369.0
77.5°	1770.2	370.5	230.2	268.4	312.6	411.7	443.7	364.4	308.0	297.3	297.3
80°	600.7	216.5	169.2	199.7	215.0	364.4	414.7	295.8	242.4	231.8	224.1
82.5°	227.2	132.7	115.9	137.2	137.2	288.2	338.5	227.2	183.0	236.3	240.9
85°	103.7	79.3	76.2	79.3	79.3	176.9	239.4	147.9	164.7	141.8	125.0
87.5°	41.2	38.1	35.1	33.5	27.4	30.5	82.3	39.6	74.7	19.8	18.3
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)