

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: P476985

Luminaire Tested: **IFLD-S-SA2E-740-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476985
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

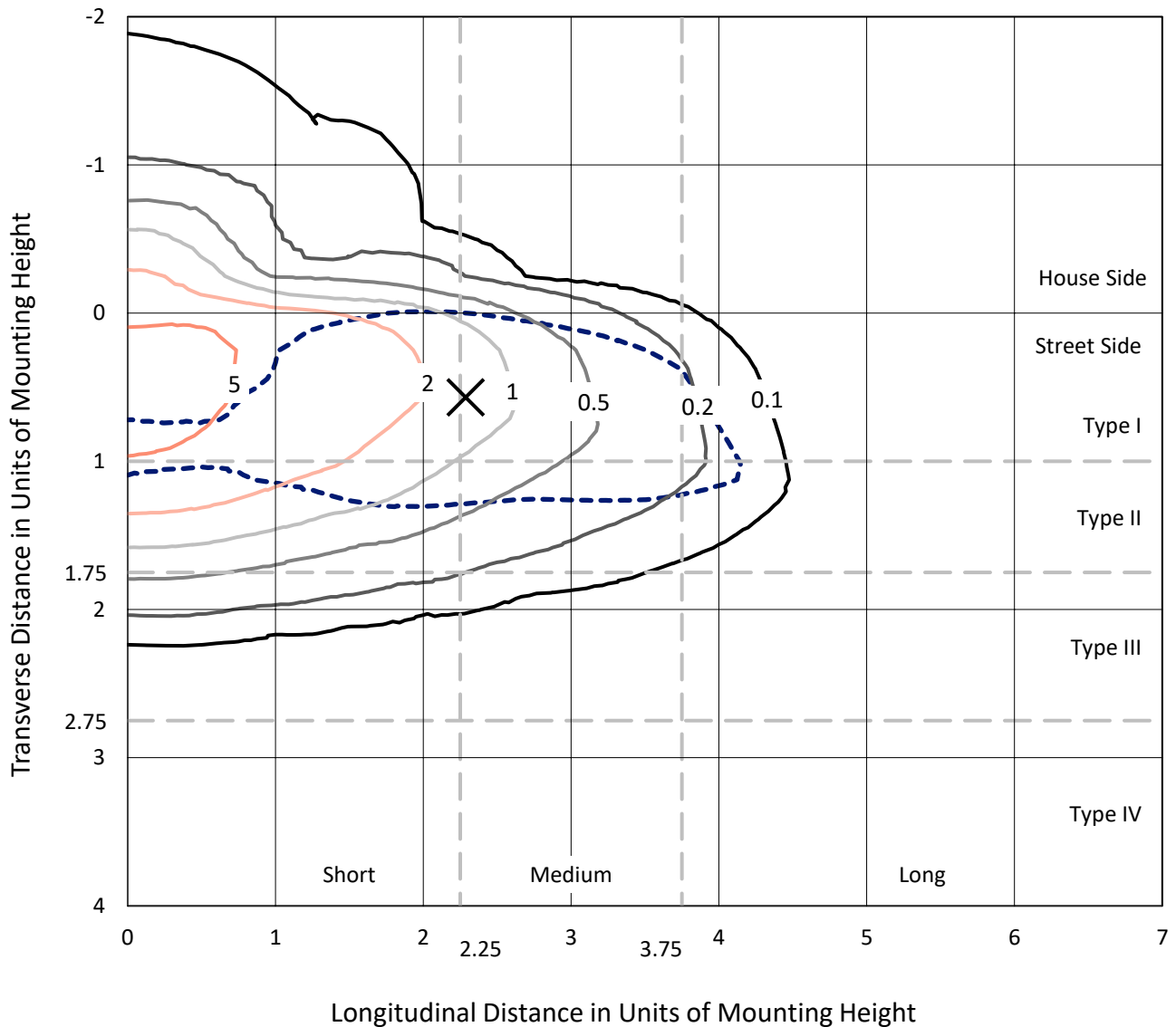
Lumens per Lamp: N/A
Luminaire Lumens: 18201.1 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

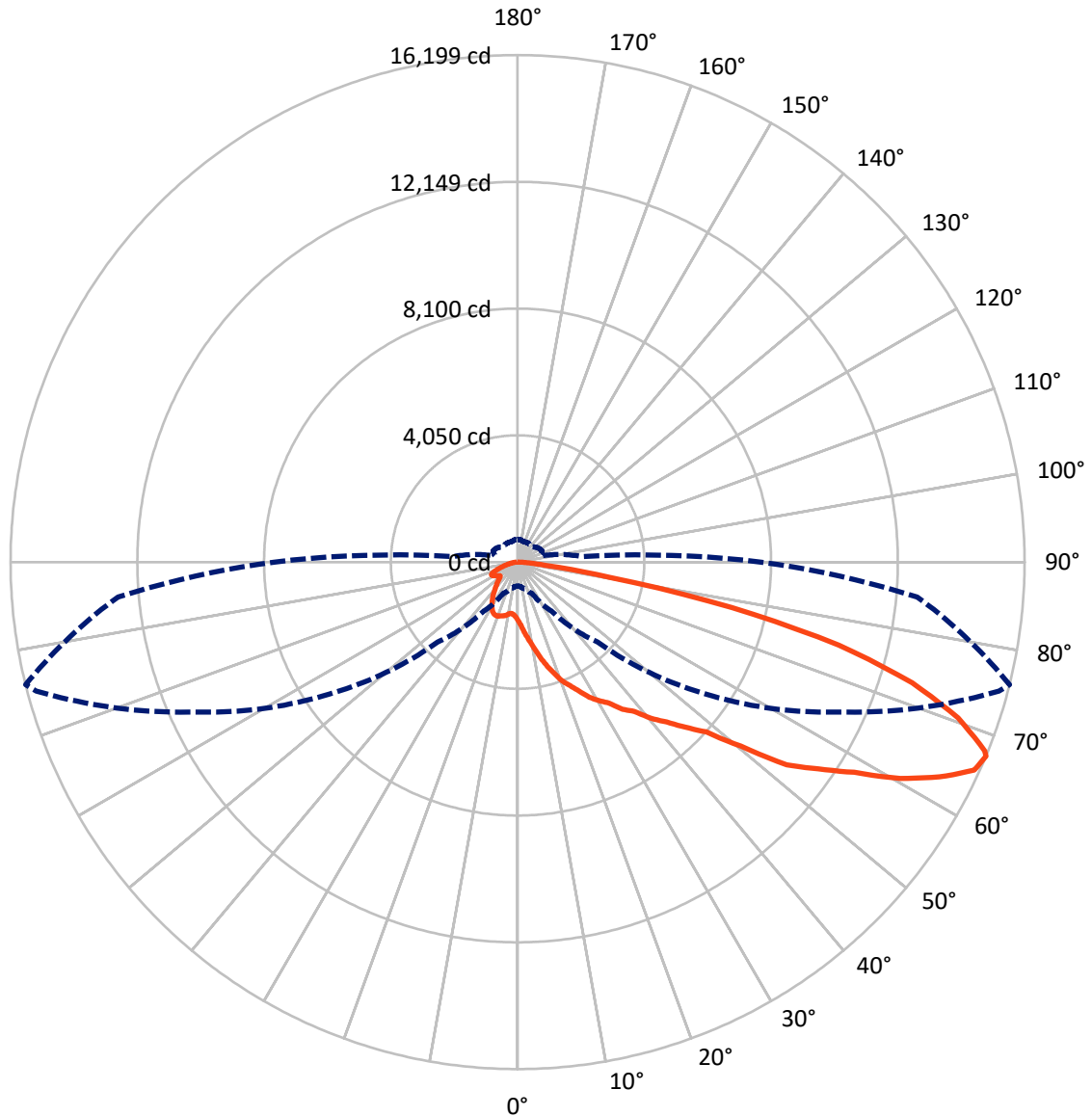
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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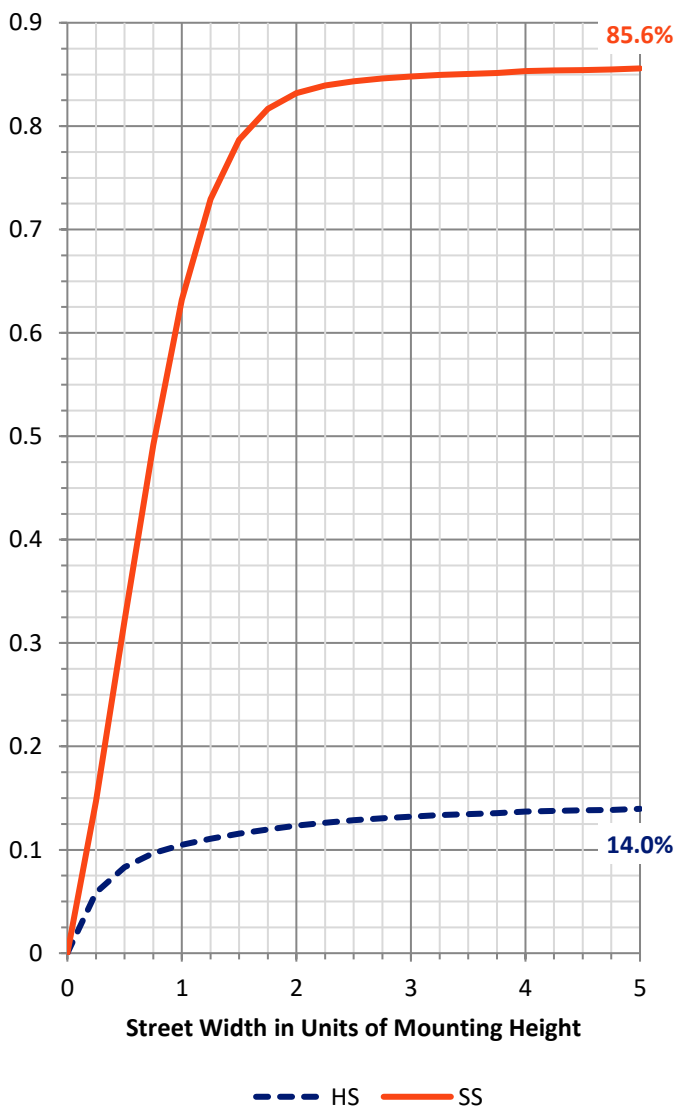
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.3	0.0	2589.3
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	15611.8	0.0	15611.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	18201.1	0.0	18201.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.8	1.2
10°-20°	809.2	4.4
20°-30°	1504.4	8.3
30°-40°	2384.8	13.1
40°-50°	3298.4	18.1
50°-60°	4057.3	22.3
60°-70°	3775.5	20.7
70°-80°	1894.5	10.4
80°-90°	261.2	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°	18201.1	100.0
0°-180°	18201.1	100.0

Coefficient of Utilization

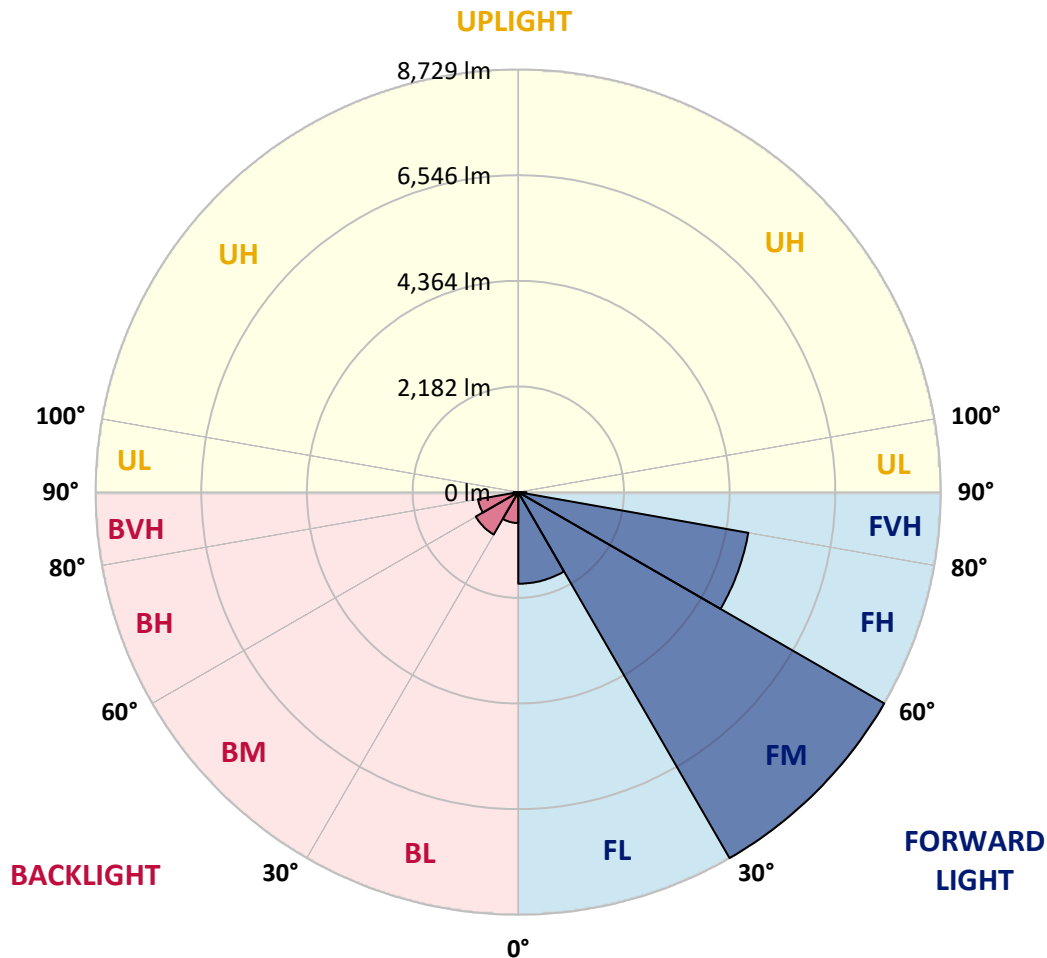


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1891.7	10.4			
FM (30°-60°)	8728.7	48.0			
FH (60°-80°)	4825.0	26.5			G2/5000
FVH (80°-90°)	166.4	0.9			G2/225
BL (0°-30°)	637.6	3.5	B2/1000		
BM (30°-60°)	1011.9	5.6	B2/2500		
BH (60°-80°)	845.0	4.6	B2/1000		G2/1000
BVH (80°-90°)	94.8	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°	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6
2.5°	2584.4	2553.3	2522.2	2455.8	2433.0	2370.8	2256.7	2130.2	2026.5	2011.9	1939.3
5°	3206.7	3161.0	3150.7	3113.3	2995.1	2874.8	2688.1	2484.9	2231.8	2250.5	2001.6
7.5°	3673.4	3646.4	3590.4	3555.1	3484.6	3324.9	3132.0	2862.4	2540.9	2478.6	2140.5
10°	4026.0	3988.6	3986.6	3955.4	3918.1	3754.2	3607.0	3244.0	2831.2	2746.2	2310.6
12.5°	4204.3	4198.1	4308.0	4308.0	4293.5	4225.1	3972.0	3640.2	3107.1	3078.1	2507.7
15°	4397.2	4345.4	4440.8	4513.4	4550.7	4586.0	4376.5	4026.0	3459.7	3403.7	2719.2
17.5°	4397.2	4393.1	4488.5	4608.8	4803.8	4849.4	4735.3	4380.6	3752.2	3710.7	2951.5
20°	4322.6	4382.7	4449.1	4610.9	4822.4	5007.0	5040.2	4743.6	4075.7	4042.6	3215.0
22.5°	4671.0	4613.0	4681.4	4743.6	4907.5	5187.5	5278.8	5063.0	4415.9	4289.4	3453.5
25°	5255.9	5216.5	5166.8	5075.5	5143.9	5266.3	5405.3	5299.5	4706.3	4565.2	3683.7
27.5°	5826.3	5828.4	5720.6	5521.4	5374.2	5399.1	5562.9	5506.9	4951.0	4888.8	3841.4
30°	6637.3	6587.6	6467.3	6197.6	5909.3	5672.9	5645.9	5699.8	5262.2	5141.9	4067.4
32.5°	7245.1	7255.4	7085.4	6697.5	6303.4	6110.5	5874.0	5896.9	5459.2	5370.0	4247.9
35°	7736.6	7724.2	7603.9	7282.4	6815.7	6583.4	6264.0	6133.3	5917.6	5776.6	4523.8
37.5°	8267.6	8166.0	7971.0	7608.0	7309.4	6987.9	6676.7	6382.2	6222.5	6052.4	4760.2
40°	8481.3	8481.3	8219.9	8054.0	7699.3	7456.6	7255.4	6709.9	6593.8	6560.6	5063.0
42.5°	8329.9	8423.2	8315.3	8126.6	7981.4	7674.4	7620.5	7050.1	7052.2	6985.8	5426.0
45°	8315.3	8186.7	8097.6	8145.3	8076.8	8060.2	8197.1	7520.9	7533.4	7525.1	5913.5
47.5°	7898.4	7840.4	7973.1	8051.9	8107.9	8365.1	8759.2	8083.0	8172.2	8110.0	6475.6
50°	7483.6	7473.2	7556.2	7842.4	8085.1	8508.2	9294.3	8950.0	9242.5	9238.3	7494.0
52.5°	6347.0	6456.9	6782.5	7388.2	7987.6	8703.2	9698.8	10057.6	10615.6	10767.0	8338.2
55°	5260.1	5202.0	5683.2	6562.7	7562.4	8780.0	10151.0	10723.5	11544.8	11654.8	9205.2
57.5°	4092.3	4200.2	4579.8	5424.0	6683.0	8400.4	10482.8	11381.0	12594.4	12679.4	10211.1
60°	3053.2	3067.7	3484.6	4164.9	5513.1	7543.8	10590.7	12055.1	13797.4	14040.0	11264.8
62.5°	1920.7	2007.8	2325.1	2995.1	4150.4	6344.9	10107.4	12463.7	15058.5	15122.8	12326.8
65°	1035.0	1091.0	1329.5	1750.6	2899.7	4799.6	8825.6	12218.9	15651.7	16033.3	12799.7
67°	765.4	775.7	885.7	1118.0	1939.3	3613.2	7359.1	11333.3	15921.3	16199.3	12818.4
67.5°	717.7	732.2	819.3	1003.9	1719.5	3327.0	6975.4	11018.0	15801.0	16099.7	12673.2
70°	614.0	618.1	638.8	690.7	964.5	2001.6	4749.8	9028.9	14645.7	14931.9	11654.8
72.5°	545.5	549.7	558.0	568.3	653.4	1157.4	2889.3	6948.5	12729.2	13185.5	10055.6
75°	479.1	493.7	497.8	489.5	555.9	752.9	1537.0	5106.6	10383.3	10605.2	7819.6
77.5°	406.5	412.8	421.1	429.4	495.7	562.1	738.4	3447.3	7126.8	6992.0	4229.2
80°	342.2	344.3	350.5	356.8	429.4	429.4	419.0	1862.6	3113.3	2976.4	1429.1
82.5°	244.8	259.3	273.8	290.4	356.8	288.3	273.8	829.7	985.2	937.5	483.3
85°	95.4	116.2	180.5	199.1	226.1	155.6	182.5	358.8	410.7	406.5	180.5
87.5°	16.6	18.7	49.8	76.7	83.0	53.9	87.1	128.6	153.5	165.9	66.4
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°	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6	1862.6
2.5°	1879.2	1814.9	1738.2	1661.4	1611.6	1532.8	1526.6	1478.9	1472.7	1456.1	1464.4
5°	1893.7	1817.0	1661.4	1539.0	1483.0	1437.4	1447.8	1427.0	1420.8	1410.4	1393.8
7.5°	2007.8	1856.4	1624.1	1518.3	1476.8	1456.1	1456.1	1431.2	1412.5	1425.0	1437.4
10°	2082.5	1875.0	1653.1	1547.3	1514.1	1468.5	1485.1	1454.0	1464.4	1439.5	1439.5
12.5°	2202.8	1980.8	1713.3	1590.9	1537.0	1495.5	1512.1	1476.8	1468.5	1470.6	1464.4
15°	2364.6	2051.4	1740.2	1615.8	1578.4	1526.6	1514.1	1483.0	1451.9	1441.5	1454.0
17.5°	2516.0	2138.5	1758.9	1630.3	1570.1	1512.1	1497.5	1458.1	1447.8	1416.7	1391.8
20°	2696.4	2242.2	1783.8	1642.7	1539.0	1481.0	1443.6	1404.2	1369.0	1350.3	1358.6
22.5°	2816.7	2296.1	1796.2	1617.9	1493.4	1439.5	1360.7	1333.7	1283.9	1263.2	1246.6
25°	3013.8	2362.5	1765.1	1549.4	1412.5	1325.4	1254.9	1217.5	1182.3	1155.3	1147.0
27.5°	3063.5	2412.3	1692.5	1433.3	1283.9	1192.6	1132.5	1086.9	1064.0	1022.6	1014.3
30°	3208.7	2362.5	1584.7	1292.2	1161.5	1068.2	1008.0	974.9	920.9	910.6	887.7
32.5°	3302.1	2377.0	1447.8	1155.3	1020.5	937.5	898.1	864.9	850.4	800.6	788.2
35°	3457.6	2327.2	1308.8	1028.8	904.3	840.0	806.9	796.5	748.8	726.0	705.2
37.5°	3557.2	2298.2	1169.8	885.7	777.8	750.8	761.2	717.7	659.6	616.0	601.5
40°	3731.4	2287.8	1012.2	767.4	690.7	684.5	717.7	634.7	528.9	491.6	470.8
42.5°	3982.4	2217.3	889.8	661.7	622.3	649.2	655.4	528.9	468.8	437.6	423.1
45°	4223.0	2231.8	769.5	547.6	541.4	580.8	566.2	448.0	412.8	389.9	402.4
47.5°	4685.5	2304.4	651.3	456.3	487.4	524.8	439.7	400.3	367.1	350.5	352.6
50°	5401.1	2374.9	547.6	416.9	460.5	475.0	377.5	363.0	360.9	327.7	325.6
52.5°	5830.5	2348.0	528.9	466.7	493.7	475.0	410.7	400.3	383.7	369.2	352.6
55°	6512.9	2426.8	568.3	545.5	560.0	456.3	460.5	456.3	443.9	406.5	416.9
57.5°	7056.3	2478.6	620.2	609.8	601.5	475.0	481.2	483.3	475.0	458.4	472.9
60°	7803.0	2582.3	674.1	676.2	678.3	516.5	526.8	539.3	537.2	531.0	535.1
62.5°	8261.4	2534.6	734.3	767.4	757.1	601.5	599.4	607.7	607.7	618.1	624.3
65°	8193.0	2358.3	765.4	848.3	794.4	663.7	663.7	667.9	670.0	690.7	692.8
67°	7782.3	2043.1	748.8	860.8	794.4	688.6	688.6	692.8	678.3	732.2	715.6
67.5°	7591.5	1949.7	734.3	850.4	788.2	686.5	686.5	688.6	676.2	728.0	711.4
70°	6602.1	1447.8	632.6	752.9	730.1	667.9	667.9	655.4	645.1	713.5	699.0
72.5°	5635.5	1051.6	508.2	640.9	659.6	643.0	647.1	616.0	587.0	634.7	622.3
75°	4316.3	773.7	396.2	493.7	558.0	601.5	628.5	549.7	512.3	524.8	501.9
77.5°	2408.1	504.0	313.2	365.1	425.2	560.0	603.6	495.7	419.0	404.5	404.5
80°	817.2	294.5	230.2	271.7	292.5	495.7	564.2	402.4	329.8	315.3	304.9
82.5°	309.1	180.5	157.6	186.7	186.7	392.0	460.5	309.1	248.9	321.5	327.7
85°	141.0	107.9	103.7	107.9	107.9	240.6	325.6	201.2	224.0	192.9	170.1
87.5°	56.0	51.9	47.7	45.6	37.3	41.5	112.0	53.9	101.6	27.0	24.9
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)