

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: P476982

Luminaire Tested: **IFLD-S-SA2B-740-U-T2R**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P476982
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

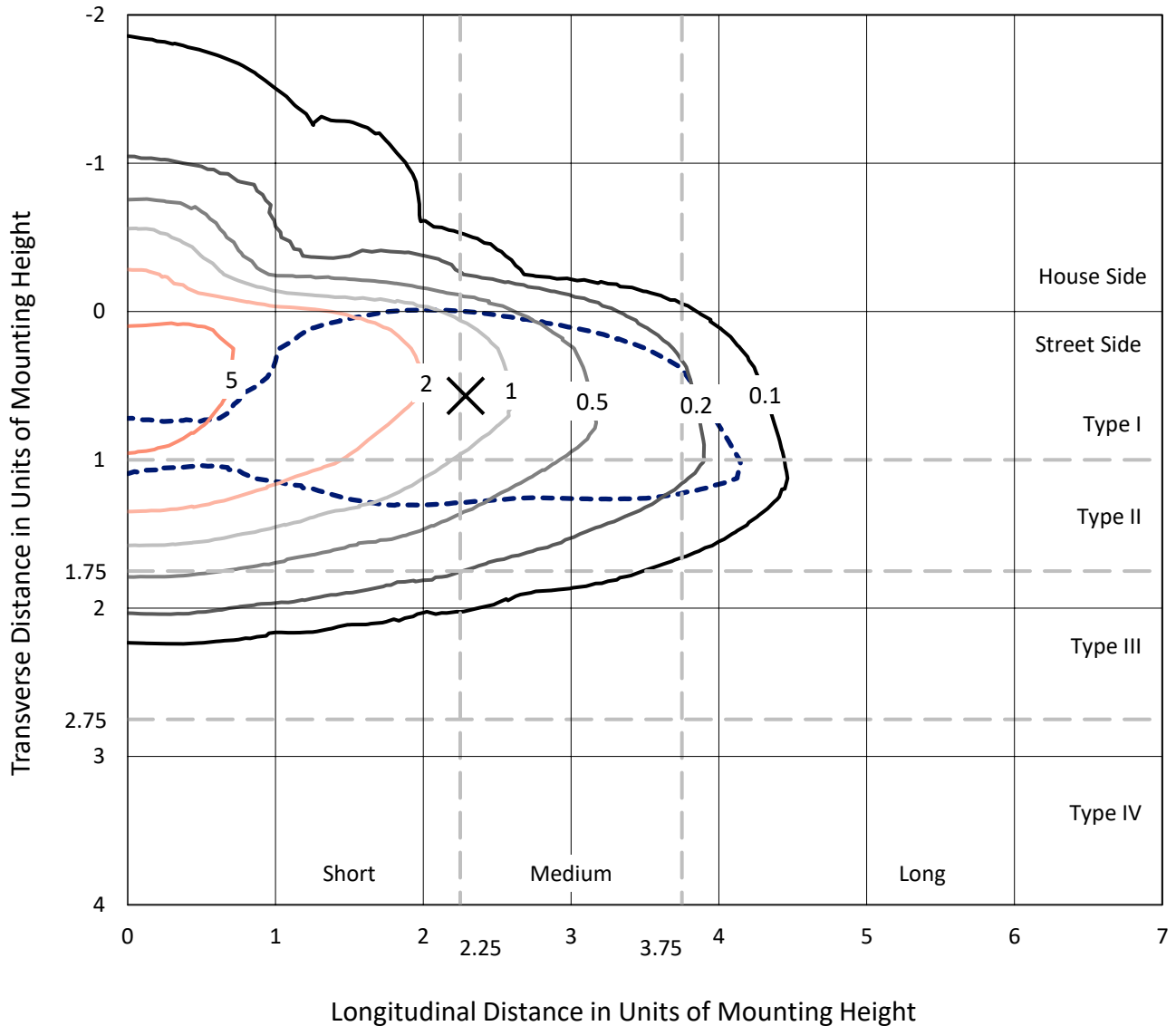
Lumens per Lamp: N/A
Luminaire Lumens: 11481.9 lumens
Efficiency: N/A
Efficacy: 139.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (A_{in}): 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

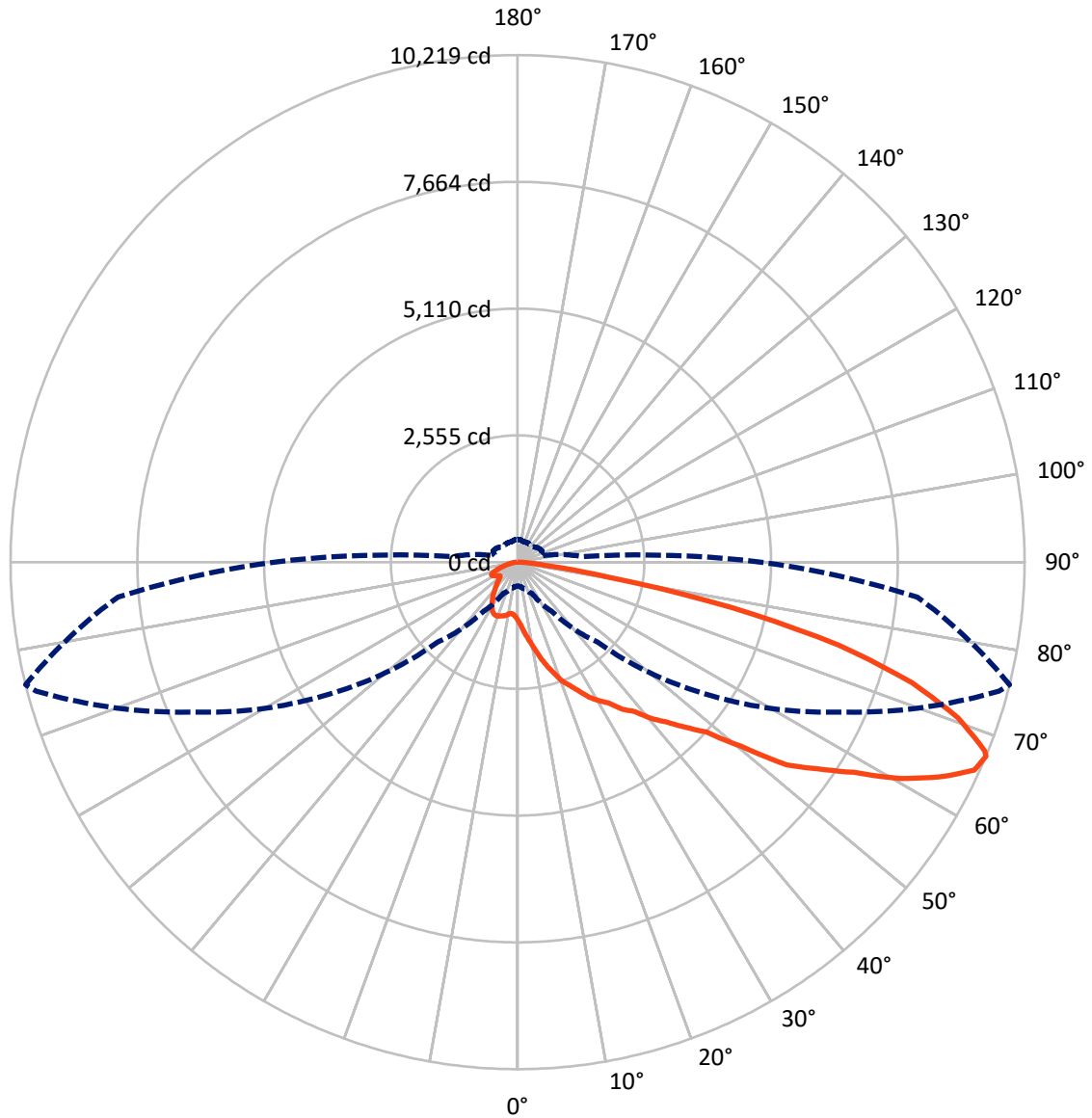
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 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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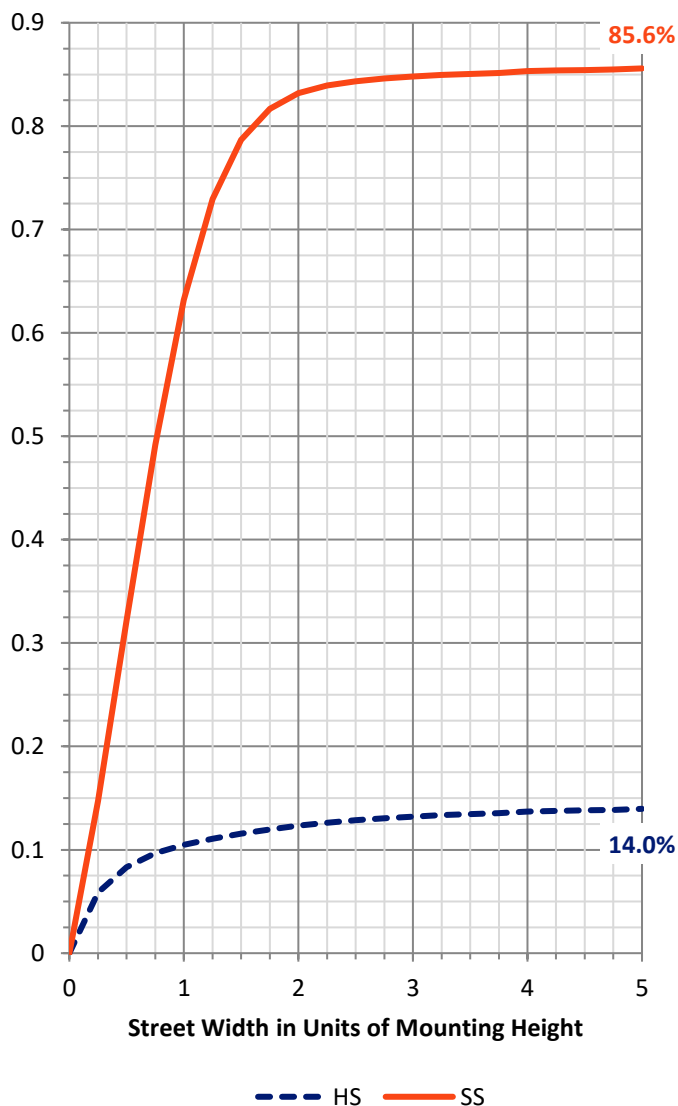
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.4	0.0	1633.4
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9848.5	0.0	9848.5
	% Fixture	85.8	0.0	85.8
Total	Lumens	11481.9	0.0	11481.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	1.2
10°-20°	510.5	4.4
20°-30°	949.0	8.3
30°-40°	1504.4	13.1
40°-50°	2080.8	18.1
50°-60°	2559.5	22.3
60°-70°	2381.7	20.7
70°-80°	1195.1	10.4
80°-90°	164.8	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°	11481.9	100.0
0°-180°	11481.9	100.0

Coefficient of Utilization



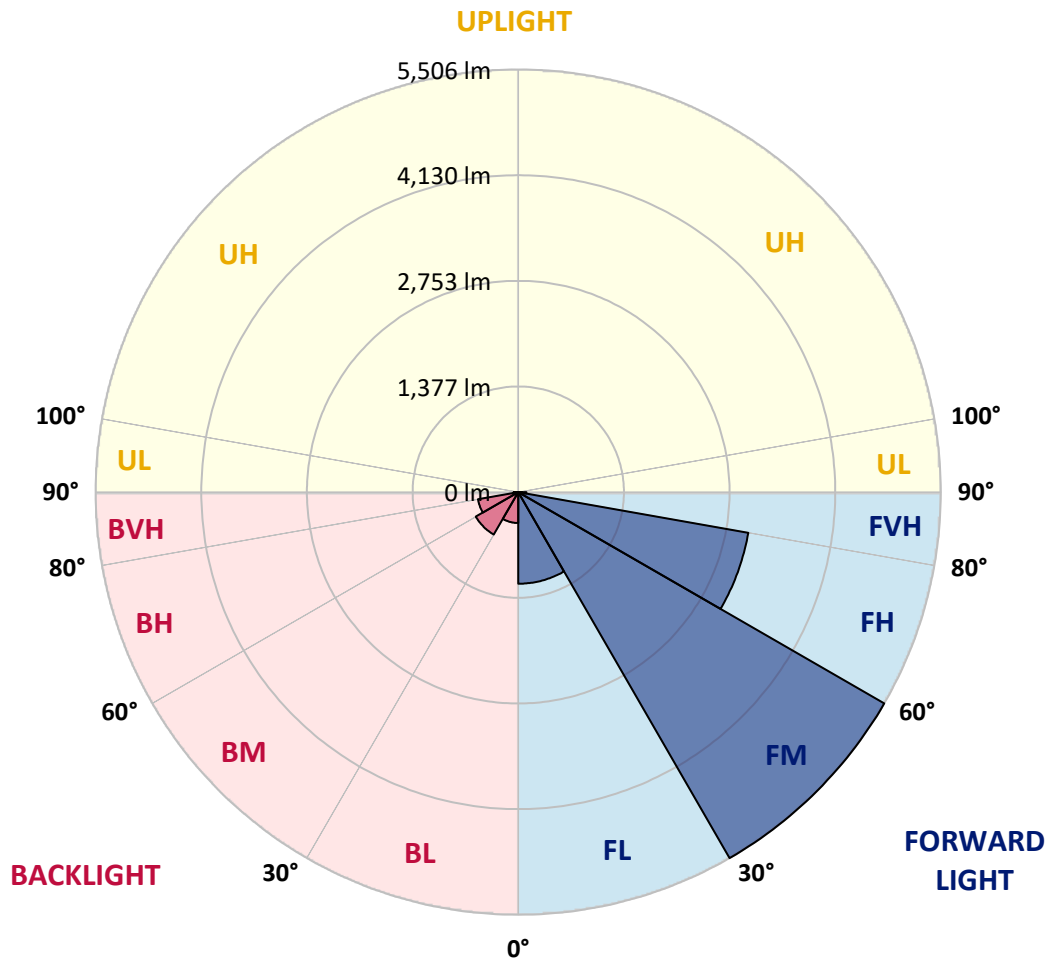
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1193.4	10.4			
FM (30°-60°)	5506.4	48.0			
FH (60°-80°)	3043.8	26.5			G2/5000
FVH (80°-90°)	105.0	0.9			G2/225
BL (0°-30°)	402.3	3.5	B1/500		
BM (30°-60°)	638.3	5.6	B1/1000		
BH (60°-80°)	533.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	59.8	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°	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0
2.5°	1630.3	1610.7	1591.1	1549.2	1534.8	1495.6	1423.6	1343.8	1278.4	1269.2	1223.4
5°	2022.9	1994.1	1987.6	1964.0	1889.4	1813.5	1695.8	1567.5	1407.9	1419.7	1262.7
7.5°	2317.3	2300.3	2265.0	2242.7	2198.2	2097.5	1975.8	1805.7	1602.9	1563.6	1350.3
10°	2539.7	2516.2	2514.9	2495.2	2471.7	2368.3	2275.4	2046.4	1786.1	1732.4	1457.6
12.5°	2652.3	2648.3	2717.7	2717.7	2708.5	2665.3	2505.7	2296.4	1960.1	1941.8	1581.9
15°	2773.9	2741.2	2801.4	2847.2	2870.8	2893.0	2760.9	2539.7	2182.5	2147.2	1715.4
17.5°	2773.9	2771.3	2831.5	2907.4	3030.4	3059.2	2987.2	2763.5	2367.0	2340.8	1861.9
20°	2726.8	2764.8	2806.7	2908.7	3042.2	3158.6	3179.6	2992.5	2571.1	2550.2	2028.1
22.5°	2946.7	2910.0	2953.2	2992.5	3095.8	3272.5	3330.0	3194.0	2785.7	2705.9	2178.6
25°	3315.6	3290.8	3259.4	3201.8	3245.0	3322.2	3409.9	3343.1	2968.9	2879.9	2323.8
27.5°	3675.5	3676.8	3608.7	3483.1	3390.2	3405.9	3509.3	3474.0	3123.3	3084.1	2423.3
30°	4187.1	4155.7	4079.8	3909.7	3727.8	3578.7	3561.6	3595.7	3319.6	3243.7	2565.9
32.5°	4570.5	4577.0	4469.7	4225.0	3976.4	3854.7	3705.6	3720.0	3443.9	3387.6	2679.7
35°	4880.6	4872.7	4796.8	4594.0	4299.6	4153.1	3951.6	3869.1	3733.0	3644.1	2853.8
37.5°	5215.5	5151.4	5028.4	4799.4	4611.0	4408.2	4211.9	4026.1	3925.4	3818.1	3002.9
40°	5350.3	5350.3	5185.4	5080.8	4857.0	4703.9	4577.0	4232.9	4159.6	4138.7	3194.0
42.5°	5254.8	5313.7	5245.6	5126.6	5035.0	4841.3	4807.3	4447.5	4448.8	4406.9	3422.9
45°	5245.6	5164.5	5108.2	5138.3	5095.2	5084.7	5171.1	4744.5	4752.3	4747.1	3730.4
47.5°	4982.6	4946.0	5029.7	5079.5	5114.8	5277.0	5525.6	5099.1	5155.3	5116.1	4085.0
50°	4720.9	4714.4	4766.7	4947.3	5100.4	5367.3	5863.2	5646.0	5830.5	5827.9	4727.5
52.5°	4003.9	4073.2	4278.7	4660.8	5038.9	5490.3	6118.4	6344.7	6696.7	6792.2	5260.0
55°	3318.3	3281.6	3585.2	4140.0	4770.7	5538.7	6403.6	6764.8	7282.9	7352.3	5807.0
57.5°	2581.6	2649.6	2889.1	3421.6	4215.9	5299.3	6613.0	7179.5	7945.0	7998.6	6441.6
60°	1926.1	1935.2	2198.2	2627.4	3477.9	4758.9	6681.0	7604.8	8703.9	8857.0	7106.3
62.5°	1211.6	1266.6	1466.8	1889.4	2618.2	4002.6	6376.1	7862.6	9499.5	9540.0	7776.2
65°	652.9	688.3	838.7	1104.3	1829.2	3027.8	5567.5	7708.2	9873.7	10114.4	8074.5
67°	482.8	489.4	558.7	705.3	1223.4	2279.3	4642.4	7149.4	10043.8	10219.1	8086.3
67.5°	452.7	461.9	516.8	633.3	1084.7	2098.8	4400.4	6950.6	9967.9	10156.3	7994.7
70°	387.3	389.9	403.0	435.7	608.4	1262.7	2996.4	5695.7	9239.1	9419.6	7352.3
72.5°	344.1	346.7	352.0	358.5	412.2	730.1	1822.7	4383.4	8030.0	8317.9	6343.4
75°	302.3	311.4	314.0	308.8	350.7	475.0	969.6	3221.4	6550.2	6690.2	4932.9
77.5°	256.5	260.4	265.6	270.9	312.7	354.6	465.8	2174.7	4495.9	4410.8	2668.0
80°	215.9	217.2	221.1	225.1	270.9	270.9	264.3	1175.0	1964.0	1877.6	901.5
82.5°	154.4	163.6	172.7	183.2	225.1	181.9	172.7	523.4	621.5	591.4	304.9
85°	60.2	73.3	113.8	125.6	142.6	98.1	115.1	226.4	259.1	256.5	113.8
87.5°	10.5	11.8	31.4	48.4	52.3	34.0	55.0	81.1	96.8	104.7	41.9
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°	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0	1175.0
2.5°	1185.5	1144.9	1096.5	1048.1	1016.7	967.0	963.0	932.9	929.0	918.5	923.8
5°	1194.6	1146.2	1048.1	970.9	935.6	906.8	913.3	900.2	896.3	889.8	879.3
7.5°	1266.6	1171.1	1024.5	957.8	931.6	918.5	918.5	902.8	891.1	898.9	906.8
10°	1313.7	1182.9	1042.8	976.1	955.2	926.4	936.9	917.2	923.8	908.1	908.1
12.5°	1389.6	1249.6	1080.8	1003.6	969.6	943.4	953.9	931.6	926.4	927.7	923.8
15°	1491.6	1294.1	1097.8	1019.3	995.7	963.0	955.2	935.6	915.9	909.4	917.2
17.5°	1587.2	1349.0	1109.6	1028.5	990.5	953.9	944.7	919.9	913.3	893.7	878.0
20°	1701.0	1414.5	1125.3	1036.3	970.9	934.2	910.7	885.8	863.6	851.8	857.0
22.5°	1776.9	1448.5	1133.1	1020.6	942.1	908.1	858.4	841.3	809.9	796.9	786.4
25°	1901.2	1490.3	1113.5	977.4	891.1	836.1	791.6	768.1	745.8	728.8	723.6
27.5°	1932.6	1521.7	1067.7	904.1	809.9	752.4	714.4	685.6	671.2	645.1	639.8
30°	2024.2	1490.3	999.7	815.2	732.7	673.9	635.9	615.0	581.0	574.4	560.0
32.5°	2083.1	1499.5	913.3	728.8	643.8	591.4	566.6	545.6	536.5	505.1	497.2
35°	2181.2	1468.1	825.6	649.0	570.5	529.9	509.0	502.5	472.4	458.0	444.9
37.5°	2244.0	1449.8	738.0	558.7	490.7	473.7	480.2	452.7	416.1	388.6	379.5
40°	2353.9	1443.2	638.5	484.1	435.7	431.8	452.7	400.4	333.7	310.1	297.0
42.5°	2512.3	1398.7	561.3	417.4	392.5	409.5	413.5	333.7	295.7	276.1	266.9
45°	2664.0	1407.9	485.4	345.4	341.5	366.4	357.2	282.6	260.4	246.0	253.8
47.5°	2955.8	1453.7	410.9	287.9	307.5	331.0	277.4	252.5	231.6	221.1	222.4
50°	3407.2	1498.2	345.4	263.0	290.5	299.6	238.1	229.0	227.7	206.7	205.4
52.5°	3678.1	1481.2	333.7	294.4	311.4	299.6	259.1	252.5	242.1	232.9	222.4
55°	4108.6	1530.9	358.5	344.1	353.3	287.9	290.5	287.9	280.0	256.5	263.0
57.5°	4451.4	1563.6	391.2	384.7	379.5	299.6	303.6	304.9	299.6	289.2	298.3
60°	4922.4	1629.0	425.3	426.6	427.9	325.8	332.3	340.2	338.9	335.0	337.6
62.5°	5211.6	1598.9	463.2	484.1	477.6	379.5	378.1	383.4	383.4	389.9	393.8
65°	5168.4	1487.7	482.8	535.2	501.1	418.7	418.7	421.3	422.6	435.7	437.0
67°	4909.4	1288.8	472.4	543.0	501.1	434.4	434.4	437.0	427.9	461.9	451.4
67.5°	4789.0	1230.0	463.2	536.5	497.2	433.1	433.1	434.4	426.6	459.3	448.8
70°	4164.8	913.3	399.1	475.0	460.6	421.3	421.3	413.5	406.9	450.1	441.0
72.5°	3555.1	663.4	320.6	404.3	416.1	405.6	408.2	388.6	370.3	400.4	392.5
75°	2722.9	488.1	249.9	311.4	352.0	379.5	396.5	346.7	323.2	331.0	316.6
77.5°	1519.1	318.0	197.6	230.3	268.2	353.3	380.8	312.7	264.3	255.2	255.2
80°	515.5	185.8	145.2	171.4	184.5	312.7	355.9	253.8	208.0	198.9	192.3
82.5°	195.0	113.8	99.4	117.8	117.8	247.3	290.5	195.0	157.0	202.8	206.7
85°	89.0	68.0	65.4	68.0	68.0	151.8	205.4	126.9	141.3	121.7	107.3
87.5°	35.3	32.7	30.1	28.8	23.6	26.2	70.7	34.0	64.1	17.0	15.7
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)