

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: P476748

Luminaire Tested: **IFLD-S-SA2B-830-U-T2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476748
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-T2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

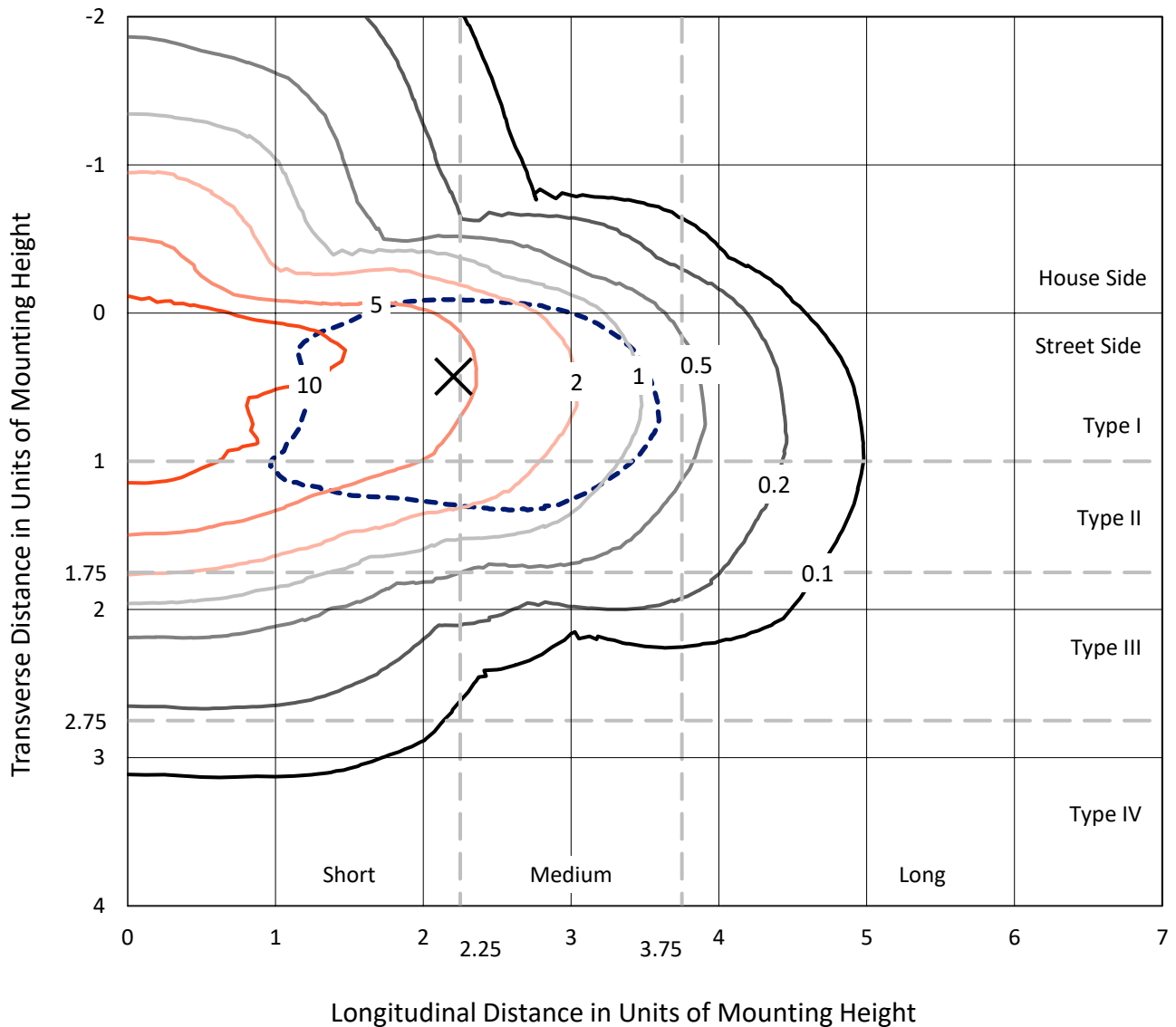
Lumens per Lamp: N/A
Luminaire Lumens: 9061.6 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 82.4
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

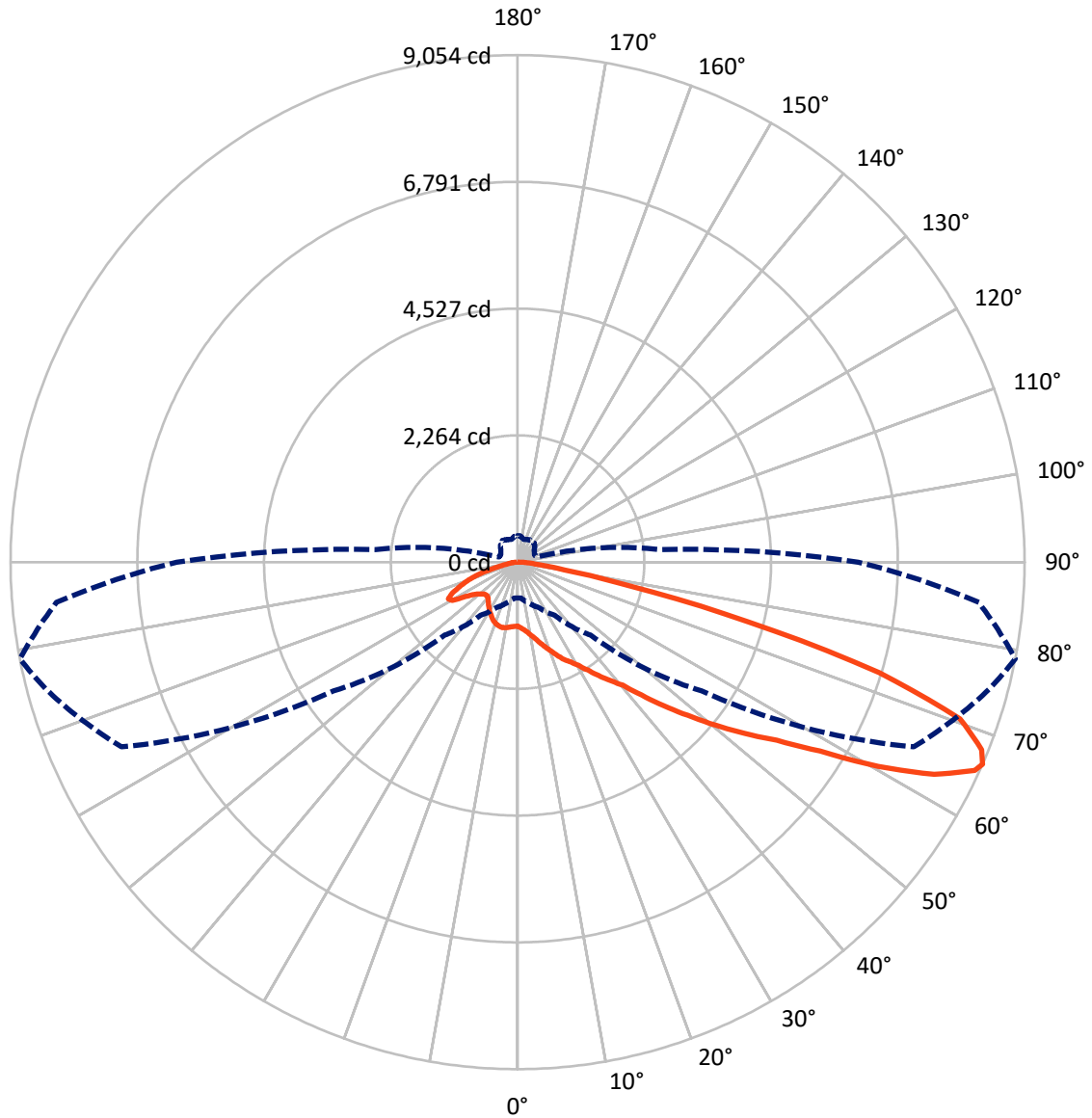
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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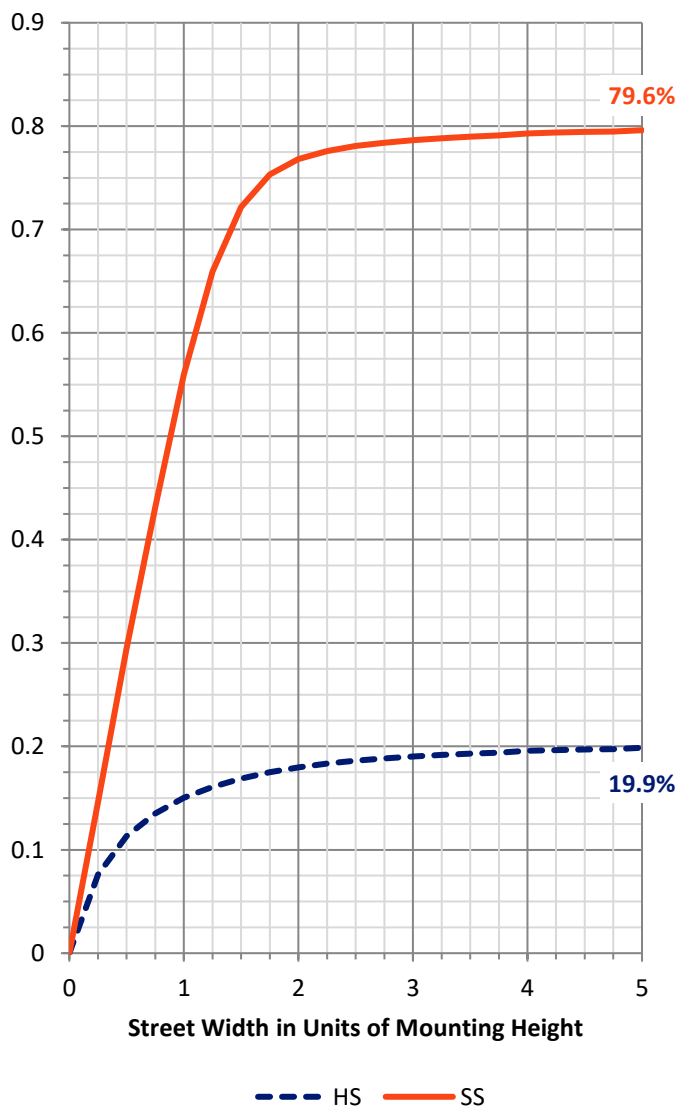
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1829.9	0.0	1829.9
	% Fixture	20.2	0.0	20.2
Street Side	Lumens	7231.8	0.0	7231.8
	% Fixture	79.8	0.0	79.8
Total	Lumens	9061.6	0.0	9061.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	1.2
10°-20°	347.4	3.8
20°-30°	596.4	6.6
30°-40°	921.3	10.2
40°-50°	1475.7	16.3
50°-60°	2203.3	24.3
60°-70°	2263.9	25.0
70°-80°	1003.5	11.1
80°-90°	137.7	1.5
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°	9061.6	100.0
0°-180°	9061.6	100.0

Coefficient of Utilization



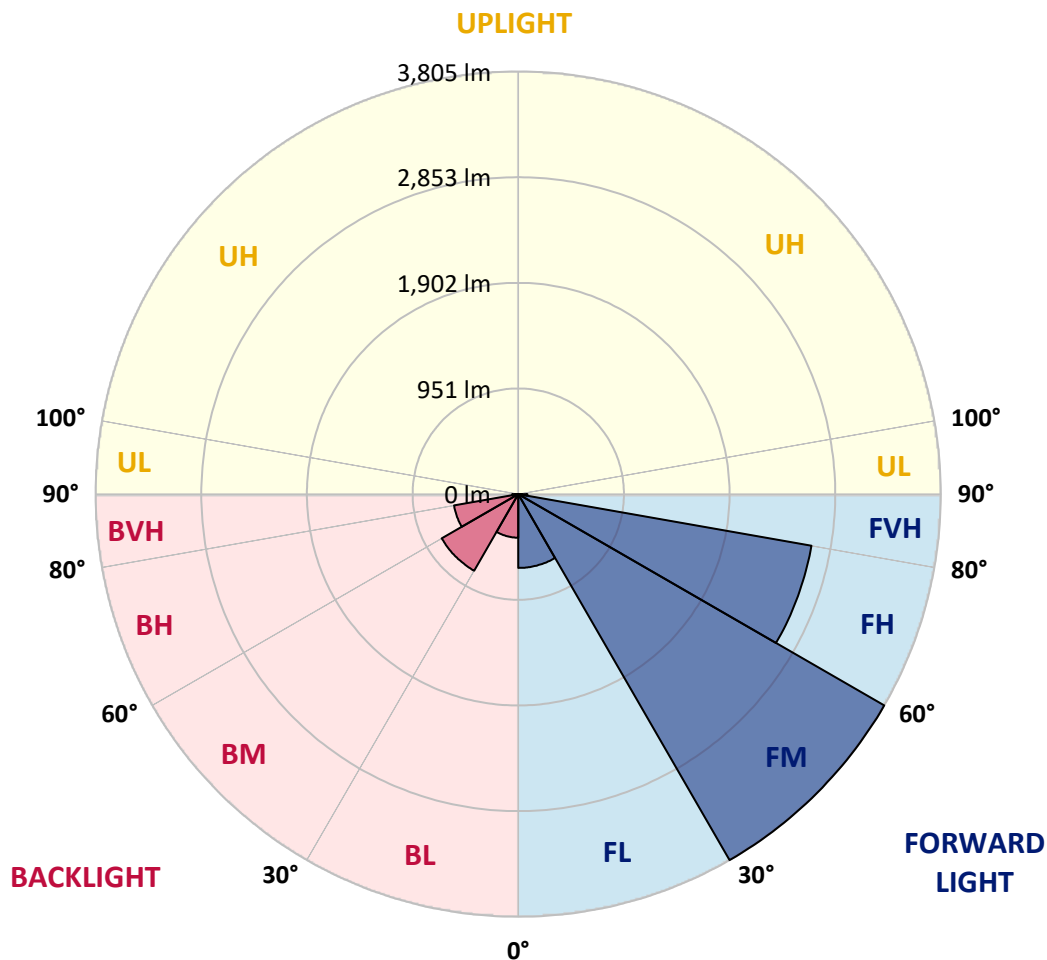
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	664.3	7.3			
FM (30°-60°)	3804.7	42.0			
FH (60°-80°)	2680.2	29.6			G2/5000
FVH (80°-90°)	82.6	0.9			G1/100
BL (0°-30°)	392.0	4.3	B1/500		
BM (30°-60°)	795.5	8.8	B1/1000		
BH (60°-80°)	587.2	6.5	B2/1000		G2/1000
BVH (80°-90°)	55.1	0.6			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2
2.5°	1217.0	1218.0	1218.0	1214.0	1215.0	1218.0	1207.0	1183.1	1183.1	1179.1	1172.1
5°	1291.7	1286.8	1279.8	1280.8	1276.8	1276.8	1264.8	1241.9	1222.0	1214.0	1193.1
7.5°	1301.7	1306.7	1305.7	1317.7	1323.6	1323.6	1329.6	1310.7	1280.8	1261.8	1240.9
10°	1321.6	1308.7	1307.7	1335.6	1344.6	1365.5	1389.4	1379.5	1354.5	1327.6	1299.7
12.5°	1333.6	1341.6	1341.6	1355.5	1376.5	1407.4	1449.2	1468.2	1429.3	1401.4	1358.5
15°	1351.5	1340.6	1372.5	1384.4	1424.3	1446.2	1506.0	1554.9	1529.0	1495.1	1427.3
17.5°	1359.5	1352.5	1370.5	1392.4	1460.2	1493.1	1565.8	1633.6	1611.7	1589.8	1520.0
20°	1400.4	1399.4	1407.4	1425.3	1474.1	1538.9	1629.6	1723.3	1731.3	1691.4	1596.7
22.5°	1500.1	1487.1	1487.1	1480.1	1501.1	1567.8	1690.4	1820.0	1855.9	1809.0	1683.5
25°	1591.8	1609.7	1598.7	1566.8	1558.9	1593.7	1734.3	1922.7	1970.5	1926.7	1801.1
27.5°	1709.4	1715.3	1734.3	1691.4	1636.6	1647.6	1782.1	1980.5	2079.1	2020.3	1867.8
30°	1878.8	1867.8	1863.9	1816.0	1744.3	1729.3	1836.9	2065.2	2221.7	2139.0	1946.6
32.5°	1993.4	2020.3	2019.3	1953.6	1866.8	1834.0	1904.7	2144.9	2374.2	2297.4	2092.1
35°	2220.7	2248.6	2226.7	2130.0	2028.3	1962.5	2002.4	2248.6	2548.6	2488.8	2215.7
37.5°	2510.7	2576.5	2529.7	2351.3	2207.7	2136.0	2138.0	2361.2	2727.0	2678.2	2348.3
40°	2711.1	2799.8	2735.0	2567.5	2415.0	2347.3	2320.4	2494.8	2940.3	2888.5	2555.6
42.5°	2959.3	3033.0	2999.1	2833.7	2655.3	2597.4	2543.6	2718.0	3266.2	3242.3	2821.7
45°	3230.4	3265.2	3254.3	3149.6	2951.3	2931.3	2812.7	3012.1	3650.0	3659.9	3154.6
47.5°	3482.5	3501.5	3522.4	3446.6	3323.1	3340.0	3122.7	3327.0	4022.7	4088.5	3525.4
50°	3547.3	3612.1	3660.9	3711.8	3738.7	3853.3	3464.6	3713.8	4451.3	4578.9	3938.0
52.5°	3481.5	3476.5	3625.1	3784.5	4053.6	4293.9	3930.1	4194.2	4830.1	5082.3	4315.8
55°	3182.5	3172.5	3411.8	3623.1	4148.3	4539.0	4594.9	4834.1	5287.6	5615.5	4827.1
57.5°	2659.2	2597.4	2858.6	3205.4	3943.0	4566.0	5262.7	5783.9	5991.3	6365.0	5607.5
60°	1787.1	1761.2	2011.4	2425.0	3201.5	4184.2	5662.3	6973.0	6983.0	7403.6	6818.5
62.5°	1100.4	1105.4	1265.8	1575.8	2241.6	3317.1	5489.9	7922.9	7924.9	8346.5	7815.3
65°	719.6	722.6	852.2	1023.6	1400.4	2249.6	4540.0	7997.6	8579.7	8971.4	8271.7
66°	640.9	641.9	753.5	893.1	1160.2	1840.9	4009.8	7803.3	8727.2	9054.2	8265.8
67.5°	540.2	553.2	642.9	750.5	905.0	1322.6	3181.5	7241.1	8651.5	8938.5	8078.4
70°	422.6	429.6	500.4	610.0	678.8	765.5	1890.8	5902.6	7918.9	8384.4	7396.6
72.5°	338.9	344.9	398.7	495.4	551.2	504.3	1029.6	4282.9	6255.4	6751.8	5817.8
75°	286.1	287.1	313.0	389.7	453.5	378.8	548.2	2748.9	4013.8	4245.0	3564.3
77.5°	231.2	235.2	253.2	297.0	364.8	298.0	326.9	1539.9	2015.4	2032.3	1647.6
80°	188.4	190.4	201.3	216.3	278.1	220.3	221.3	751.5	864.2	844.2	669.8
82.5°	148.5	150.5	163.5	160.5	204.3	157.5	137.5	361.8	397.7	389.7	308.0
85°	83.7	83.7	128.6	128.6	129.6	99.7	83.7	170.4	210.3	196.4	144.5
87.5°	26.9	27.9	38.9	40.9	64.8	44.9	40.9	63.8	99.7	87.7	51.8
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°	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2	1144.2
2.5°	1168.2	1152.2	1145.2	1122.3	1116.3	1101.4	1094.4	1085.4	1082.4	1069.5	1081.4
5°	1177.1	1172.1	1144.2	1115.3	1093.4	1083.4	1068.5	1048.5	1046.6	1028.6	1026.6
7.5°	1215.0	1198.1	1149.2	1118.3	1074.5	1049.5	1016.7	1006.7	993.7	987.7	1000.7
10°	1273.8	1230.9	1158.2	1080.4	1026.6	996.7	972.8	965.8	966.8	962.8	956.8
12.5°	1315.7	1274.8	1143.2	1048.5	978.8	949.9	947.9	954.9	965.8	960.8	967.8
15°	1375.5	1298.7	1132.3	995.7	939.9	931.9	930.9	951.9	950.9	950.9	949.9
17.5°	1431.3	1322.6	1092.4	949.9	899.0	905.0	912.0	911.0	921.0	925.0	931.9
20°	1502.1	1350.6	1036.6	904.0	868.1	866.1	865.1	866.1	876.1	882.1	877.1
22.5°	1563.8	1356.5	989.7	860.2	831.3	823.3	810.3	823.3	818.3	820.3	826.3
25°	1617.7	1357.5	923.0	827.3	794.4	776.4	766.5	765.5	756.5	755.5	755.5
27.5°	1662.5	1323.6	864.2	781.4	750.5	733.6	732.6	721.6	698.7	683.7	685.7
30°	1697.4	1297.7	823.3	741.6	711.7	708.7	699.7	674.8	644.9	625.9	625.9
32.5°	1759.2	1245.9	767.5	700.7	685.7	681.8	660.8	638.9	611.0	593.0	590.1
35°	1805.1	1198.1	730.6	665.8	658.8	650.9	632.9	609.0	601.0	597.0	600.0
37.5°	1856.9	1144.2	685.7	635.9	642.9	627.9	607.0	596.0	623.9	617.0	620.0
40°	1939.6	1106.4	641.9	618.0	624.9	608.0	581.1	577.1	612.0	587.1	581.1
42.5°	2091.1	1105.4	615.0	591.1	596.0	583.1	559.2	557.2	571.1	541.2	532.2
45°	2279.5	1140.2	595.0	571.1	567.1	565.1	557.2	548.2	536.2	497.4	487.4
47.5°	2504.7	1197.1	591.1	541.2	546.2	563.1	553.2	530.3	499.4	474.4	469.5
50°	2777.8	1314.7	581.1	519.3	528.3	555.2	547.2	515.3	487.4	471.4	468.5
52.5°	3079.9	1463.2	568.1	485.4	505.3	548.2	552.2	522.3	481.4	467.5	465.5
55°	3435.7	1682.5	553.2	448.5	478.4	541.2	552.2	502.3	473.4	473.4	471.4
57.5°	4138.4	2077.2	522.3	414.6	454.5	528.3	536.2	503.3	474.4	474.4	470.4
60°	5169.0	2693.1	463.5	388.7	431.6	510.3	524.3	488.4	463.5	469.5	468.5
62.5°	5975.3	2880.5	413.6	363.8	408.7	477.4	508.3	472.4	450.5	472.4	474.4
65°	6147.7	2691.1	362.8	336.9	376.8	445.5	485.4	449.5	431.6	474.4	476.4
66°	6085.9	2543.6	344.9	328.9	362.8	429.6	471.4	441.5	421.6	472.4	473.4
67.5°	5810.9	2322.3	324.9	312.0	343.9	406.7	455.5	430.6	405.7	466.5	457.5
70°	5212.8	1969.5	291.0	282.1	317.0	368.8	418.6	402.7	380.7	429.6	413.6
72.5°	4014.8	1573.8	255.2	256.2	286.1	329.9	381.7	370.8	351.8	376.8	366.8
75°	2444.9	1005.7	222.3	224.3	249.2	293.0	346.9	338.9	316.0	329.9	324.9
77.5°	1083.4	498.4	187.4	191.4	211.3	258.1	302.0	289.0	265.1	268.1	266.1
80°	420.6	236.2	152.5	157.5	170.4	206.3	250.2	238.2	217.3	213.3	211.3
82.5°	202.3	131.6	117.6	119.6	124.6	164.5	215.3	200.3	172.4	154.5	154.5
85°	101.7	81.7	82.7	75.8	82.7	111.6	145.5	121.6	100.7	89.7	91.7
87.5°	40.9	40.9	40.9	34.9	36.9	52.8	67.8	45.8	41.9	24.9	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)