

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: P573358

Luminaire Tested: **ARCH-S-PA2-60-830-U-T2U**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-15)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-60-830-U-T2U
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 3000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7427 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

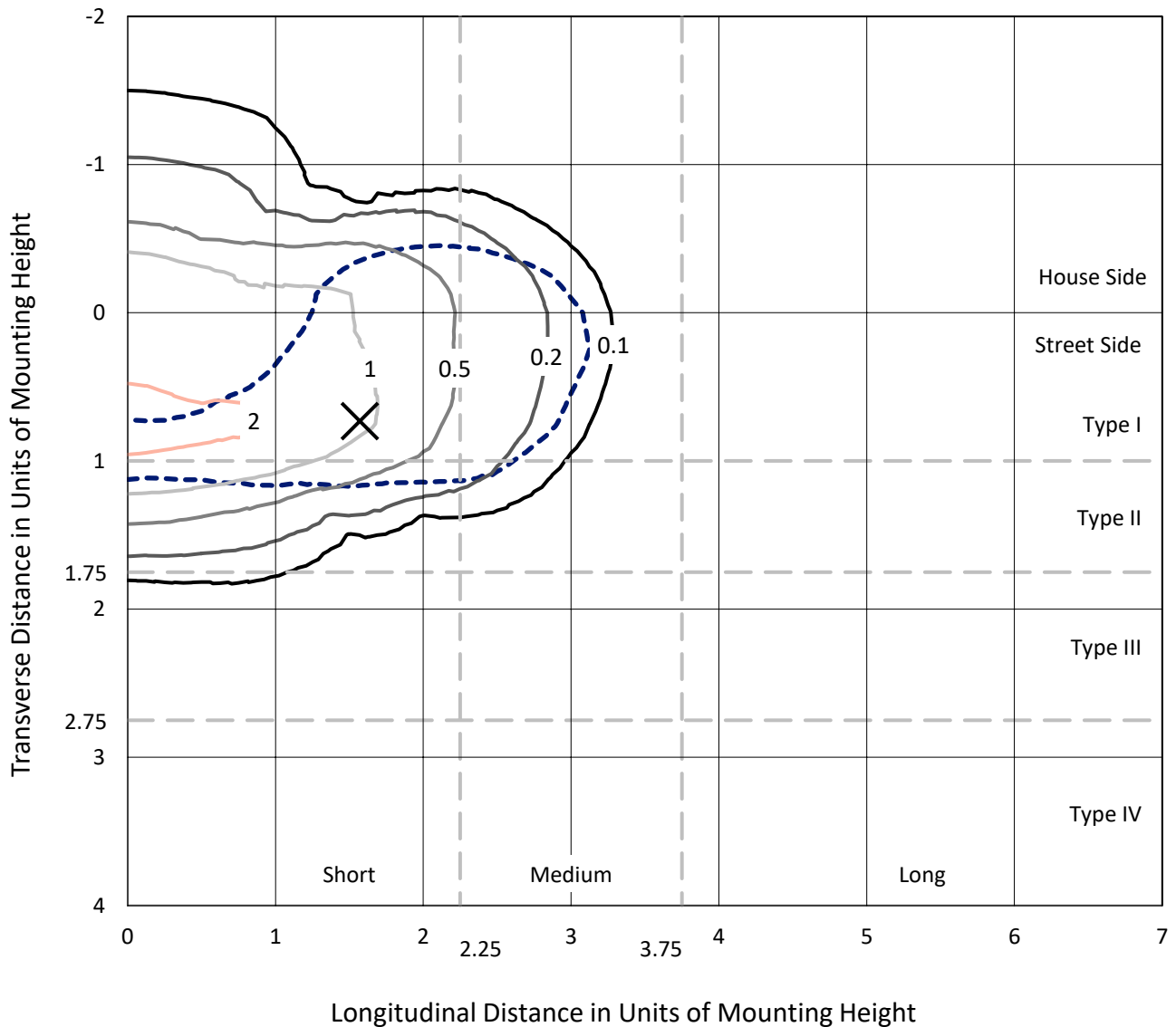
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P573358
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

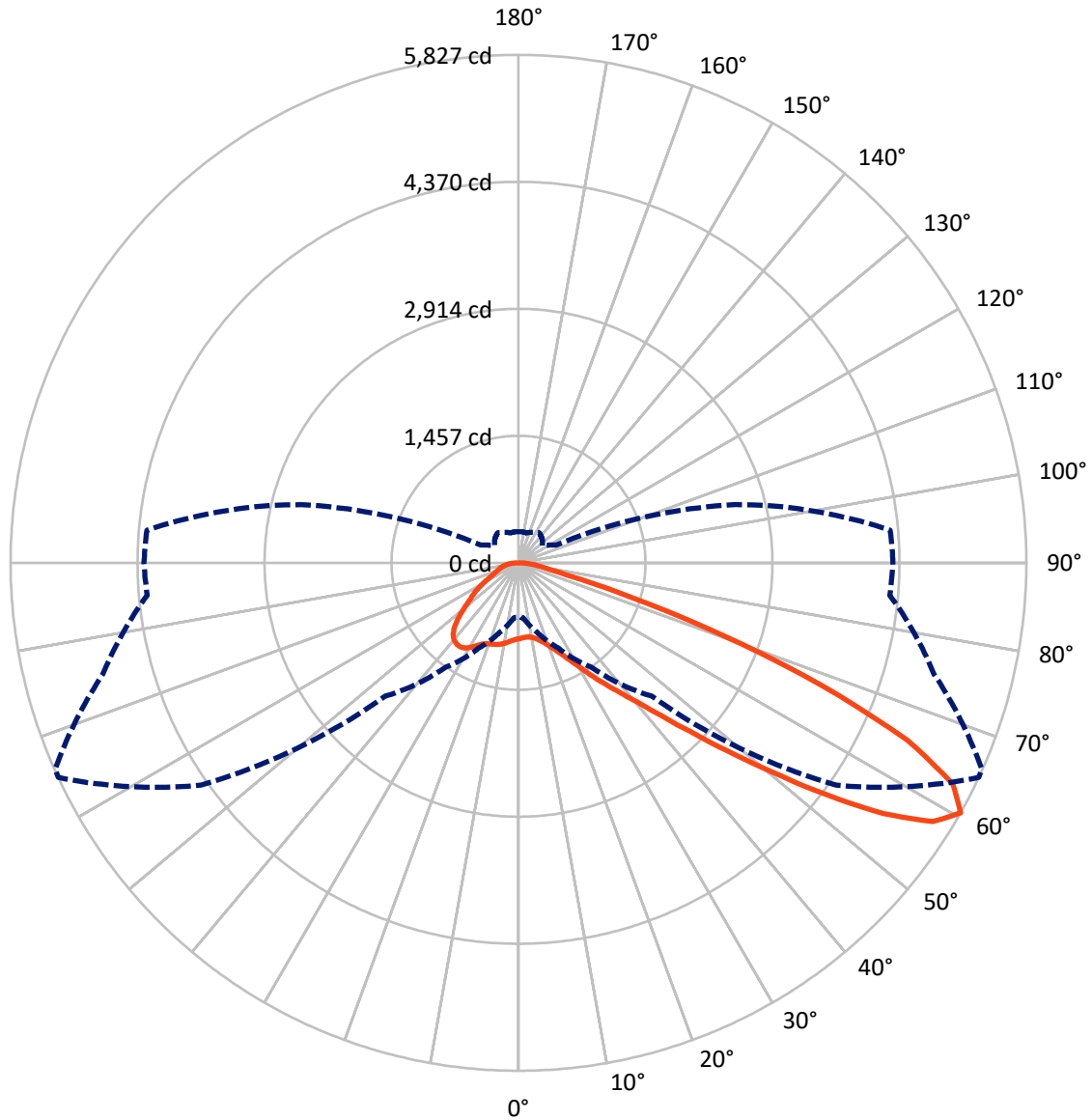
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

REPORT NUMBER: P573358
CATALOG NUMBER: ARCH-S-PA2-60-830-U-T2U

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P573358
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T2U

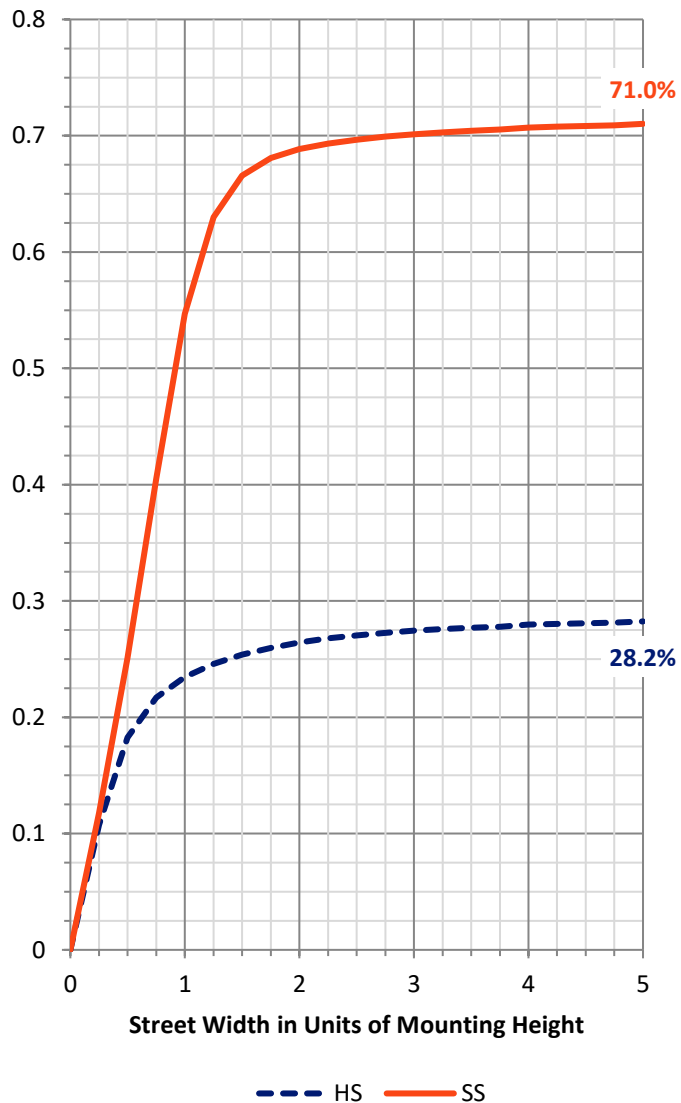
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2126.1	0.0	2126.1
	% Fixture	28.6	0.0	28.6
Street Side	Lumens	5300.9	0.0	5300.9
	% Fixture	71.4	0.0	71.4
Total	Lumens	7427.0	0.0	7427.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	1.1
10°-20°	271.0	3.6
20°-30°	519.4	7.0
30°-40°	902.1	12.1
40°-50°	1530.0	20.6
50°-60°	1905.2	25.7
60°-70°	1535.2	20.7
70°-80°	581.3	7.8
80°-90°	98.6	1.3
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°	7427.0	100.0
0°-180°	7427.0	100.0

Coefficient of Utilization

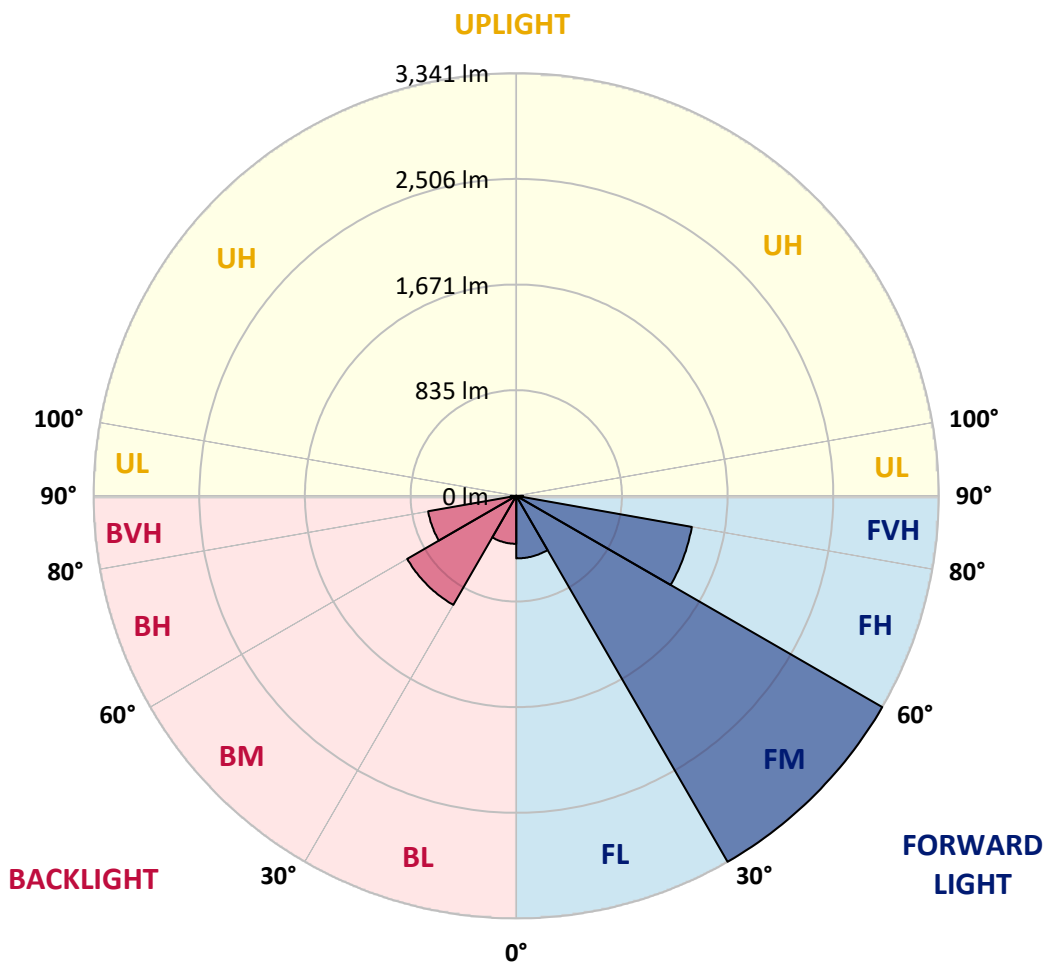


REPORT NUMBER: P573358
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	495.1	6.7			
FM (30°-60°)	3341.4	45.0			
FH (60°-80°)	1409.6	19.0			G1/1800
FVH (80°-90°)	54.7	0.7			G1/100
BL (0°-30°)	379.4	5.1	B1/500		
BM (30°-60°)	995.9	13.4	B1/1000		
BH (60°-80°)	706.9	9.5	B2/1000		G2/1000
BVH (80°-90°)	43.9	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





REPORT NUMBER: P573358

CATALOG NUMBER: ARCH-S-PA2-60-830-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4
2.5°	851.1	851.1	851.1	853.1	855.1	857.2	861.2	861.2	861.2	863.3	867.3
5°	834.8	832.7	834.8	836.8	840.9	844.9	853.1	857.2	857.2	865.3	873.4
7.5°	836.8	832.7	832.7	834.8	838.8	842.9	851.1	857.2	859.2	869.4	883.6
10°	857.2	851.1	851.1	853.1	853.1	857.2	863.3	871.4	873.4	883.6	897.9
12.5°	899.9	893.8	891.8	885.7	879.6	883.6	889.7	891.8	893.8	899.9	914.2
15°	989.5	979.3	963.0	950.8	934.5	924.3	922.3	924.3	924.3	926.4	934.5
17.5°	1117.8	1105.6	1081.1	1054.7	1016.0	983.4	973.2	965.1	965.1	959.0	959.0
20°	1274.5	1256.2	1227.7	1189.0	1132.0	1073.0	1038.4	1020.0	1013.9	1003.8	989.5
22.5°	1455.7	1443.5	1406.9	1347.8	1262.3	1182.9	1125.9	1085.2	1085.2	1060.8	1030.2
25°	1669.5	1647.1	1604.4	1535.1	1419.1	1305.1	1227.7	1168.7	1162.6	1123.9	1075.0
27.5°	1877.2	1862.9	1810.0	1718.4	1579.9	1447.6	1339.7	1270.5	1260.3	1199.2	1123.9
30°	2129.7	2113.4	2034.0	1905.7	1757.1	1606.4	1480.2	1390.6	1380.4	1296.9	1191.1
32.5°	2443.2	2388.2	2290.5	2143.9	1952.5	1783.5	1639.0	1543.3	1531.1	1435.4	1309.2
35°	2823.9	2777.1	2608.1	2453.4	2225.4	2003.4	1830.4	1704.1	1687.8	1573.8	1415.0
37.5°	3092.7	3070.3	2954.2	2832.1	2571.5	2272.2	2060.4	1885.3	1869.1	1718.4	1512.8
40°	3261.7	3239.3	3206.7	3172.1	3027.5	2689.6	2337.3	2099.1	2072.7	1930.1	1708.2
42.5°	3349.2	3330.9	3337.0	3406.2	3447.0	3394.0	2732.3	2384.2	2365.8	2192.8	1946.4
45°	3298.3	3286.1	3345.2	3528.4	3727.9	4118.8	3239.3	2758.8	2709.9	2504.3	2235.5
47.5°	3054.0	3017.4	3155.8	3467.3	3894.9	4465.0	3850.1	3221.0	3168.0	2872.8	2528.7
50°	2551.1	2540.9	2730.3	3125.3	3829.7	4601.4	4503.6	3766.6	3727.9	3269.8	2854.5
52.5°	2082.8	2078.8	2225.4	2587.8	3414.4	4505.7	4978.0	4416.1	4300.0	3668.9	3208.7
55°	1616.6	1614.6	1744.9	2015.6	2724.2	4055.7	5202.0	5077.8	4992.3	4104.6	3573.2
57.5°	1105.6	1091.3	1260.3	1465.9	2046.2	3212.8	5055.4	5601.1	5548.1	4566.8	3960.0
60°	614.9	635.2	822.5	1077.0	1463.9	2164.3	4444.6	5827.0	5818.9	4935.3	4275.6
62.5°	435.7	443.8	523.3	765.5	963.0	1239.9	3428.6	5592.9	5658.1	5138.9	4454.8
65°	362.4	366.5	405.2	566.0	704.5	716.7	2137.8	4898.6	4984.1	5075.8	4493.5
67.5°	342.0	344.1	364.4	417.4	551.8	519.2	954.9	3740.1	3921.3	4566.8	4241.0
70°	311.5	313.5	344.1	368.5	445.9	409.2	490.7	2483.9	2728.2	3609.8	3656.7
72.5°	266.7	272.8	297.3	346.1	362.4	340.0	378.7	1327.5	1569.8	2414.7	2823.9
75°	230.1	234.1	252.5	293.2	340.0	270.8	321.7	604.7	708.5	1417.1	1787.6
77.5°	185.3	187.3	213.8	240.2	285.0	219.9	250.4	362.4	380.7	692.2	808.3
80°	140.5	140.5	158.8	191.4	211.7	211.7	183.2	252.5	262.6	329.8	319.7
82.5°	107.9	105.9	120.1	134.4	152.7	177.1	138.4	167.0	171.0	199.5	171.0
85°	71.3	71.3	79.4	91.6	101.8	97.7	107.9	97.7	101.8	124.2	93.7
87.5°	30.5	30.5	42.8	40.7	44.8	46.8	52.9	46.8	46.8	57.0	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P573358
 CATALOG NUMBER: ARCH-S-PA2-60-830-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4	871.4
2.5°	869.4	871.4	875.5	877.5	883.6	885.7	885.7	889.7	889.7	893.8	893.8
5°	875.5	881.6	887.7	893.8	899.9	902.0	906.0	908.1	908.1	912.1	910.1
7.5°	887.7	893.8	906.0	912.1	920.3	924.3	922.3	924.3	922.3	924.3	924.3
10°	904.0	912.1	926.4	934.5	940.6	942.7	936.6	930.5	922.3	922.3	922.3
12.5°	922.3	928.4	946.7	952.9	956.9	950.8	934.5	922.3	916.2	918.2	916.2
15°	940.6	946.7	961.0	967.1	967.1	948.8	934.5	930.5	928.4	930.5	930.5
17.5°	959.0	965.1	977.3	977.3	971.2	956.9	942.7	928.4	918.2	912.1	912.1
20°	983.4	983.4	987.5	987.5	985.4	963.0	928.4	893.8	873.4	861.2	859.2
22.5°	1016.0	1007.8	999.7	999.7	1007.8	948.8	881.6	828.7	796.1	792.0	783.9
25°	1050.6	1032.3	1011.9	1026.1	1011.9	912.1	816.4	745.2	706.5	692.2	696.3
27.5°	1087.2	1058.7	1028.2	1068.9	991.5	840.9	724.8	645.4	608.8	598.6	598.6
30°	1138.1	1095.4	1050.6	1113.7	952.9	759.4	616.9	559.9	539.5	531.4	529.4
32.5°	1235.9	1170.7	1105.6	1154.4	910.1	653.6	543.6	509.0	484.6	476.4	482.5
35°	1323.4	1231.8	1189.0	1172.7	842.9	568.0	498.8	468.3	447.9	437.7	437.7
37.5°	1402.8	1315.3	1282.7	1172.7	755.4	515.1	470.3	445.9	419.4	411.3	411.3
40°	1575.9	1459.8	1402.8	1156.5	647.4	488.6	456.1	427.6	405.2	397.0	395.0
42.5°	1814.1	1657.3	1527.0	1119.8	555.8	476.4	447.9	415.3	397.0	390.9	388.9
45°	2066.5	1928.1	1645.1	1054.7	496.8	464.2	445.9	411.3	388.9	382.8	380.7
47.5°	2371.9	2229.4	1781.5	954.9	456.1	456.1	443.8	405.2	384.8	378.7	378.7
50°	2709.9	2591.8	1954.6	840.9	425.5	450.0	439.8	405.2	382.8	376.7	374.6
52.5°	3056.0	3001.1	2135.8	728.9	395.0	441.8	437.7	405.2	378.7	372.6	372.6
55°	3495.8	3451.0	2345.5	645.4	370.6	425.5	437.7	401.1	372.6	368.5	368.5
57.5°	3927.5	3911.2	2508.4	572.1	352.2	405.2	431.6	395.0	366.5	364.4	364.4
60°	4296.0	4279.7	2577.6	480.5	333.9	384.8	419.4	384.8	356.3	358.3	358.3
62.5°	4524.0	4430.3	2526.7	397.0	315.6	366.5	405.2	372.6	346.1	352.2	350.2
65°	4564.7	4346.9	2329.2	331.9	295.2	346.1	388.9	358.3	331.9	346.1	344.1
67.5°	4265.4	3903.0	1958.6	289.1	274.9	323.7	370.6	338.0	315.6	335.9	329.8
70°	3618.0	3170.1	1449.6	256.5	254.5	297.3	346.1	313.5	293.2	303.4	295.2
72.5°	2693.6	2288.5	938.6	232.1	232.1	266.7	311.5	283.0	262.6	264.7	256.5
75°	1679.7	1406.9	533.4	209.7	209.7	236.2	276.9	248.4	234.1	226.0	236.2
77.5°	763.5	618.9	281.0	187.3	189.3	201.6	238.2	211.7	195.5	183.2	189.3
80°	283.0	252.5	183.2	160.8	164.9	167.0	191.4	169.0	154.7	146.6	142.5
82.5°	146.6	136.4	124.2	128.3	134.4	128.3	148.6	126.2	109.9	103.8	87.5
85°	73.3	71.3	75.3	85.5	93.7	79.4	89.6	81.4	67.2	48.9	48.9
87.5°	28.5	30.5	28.5	38.7	42.8	36.6	40.7	28.5	20.4	10.2	8.1
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)