

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: P573590

Luminaire Tested: **ARCH-S-PA2-90-827-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-13)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-90-827-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 80 CRI, 2700K, 910mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9471 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

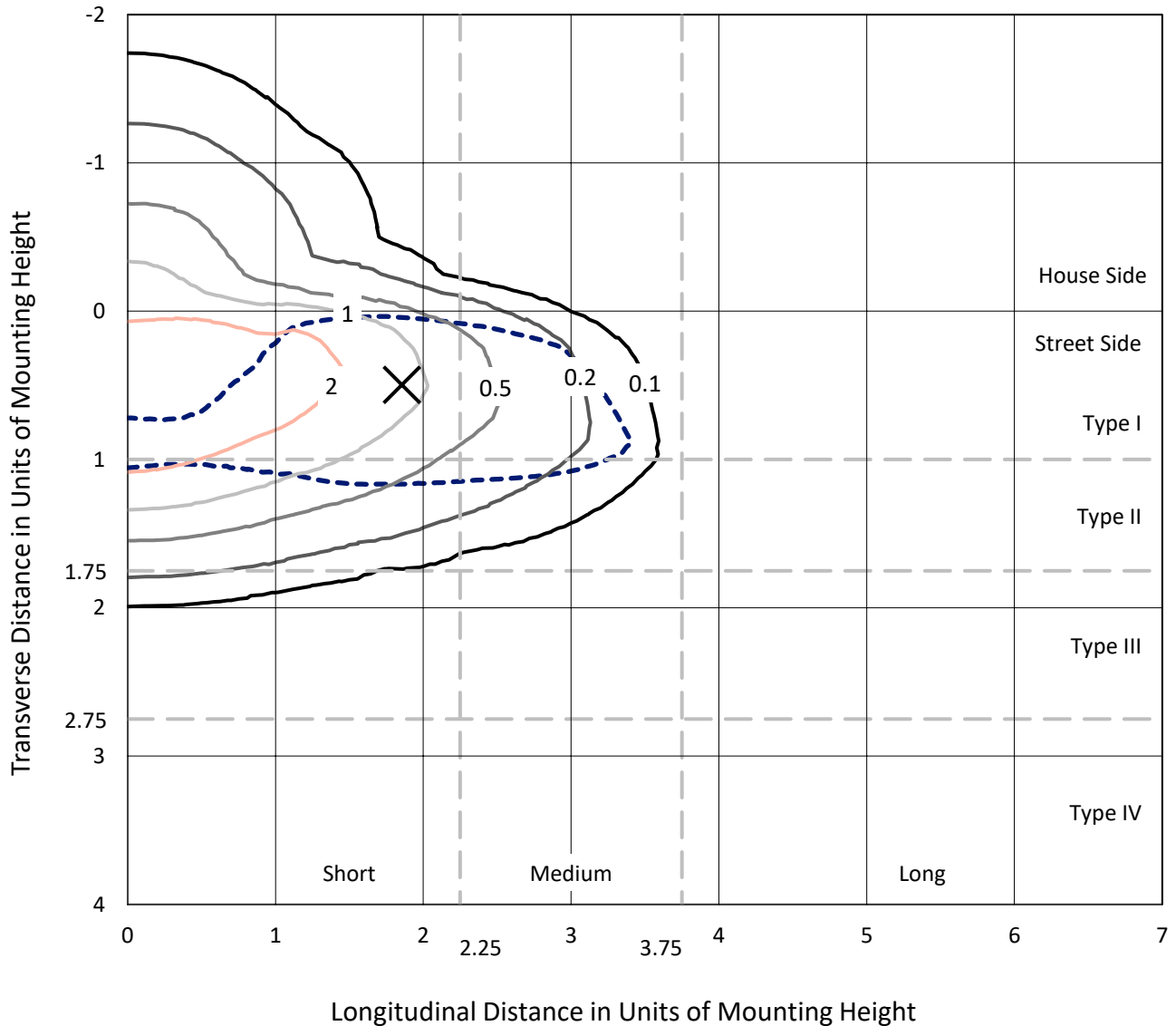
Input Watts (W): 92.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

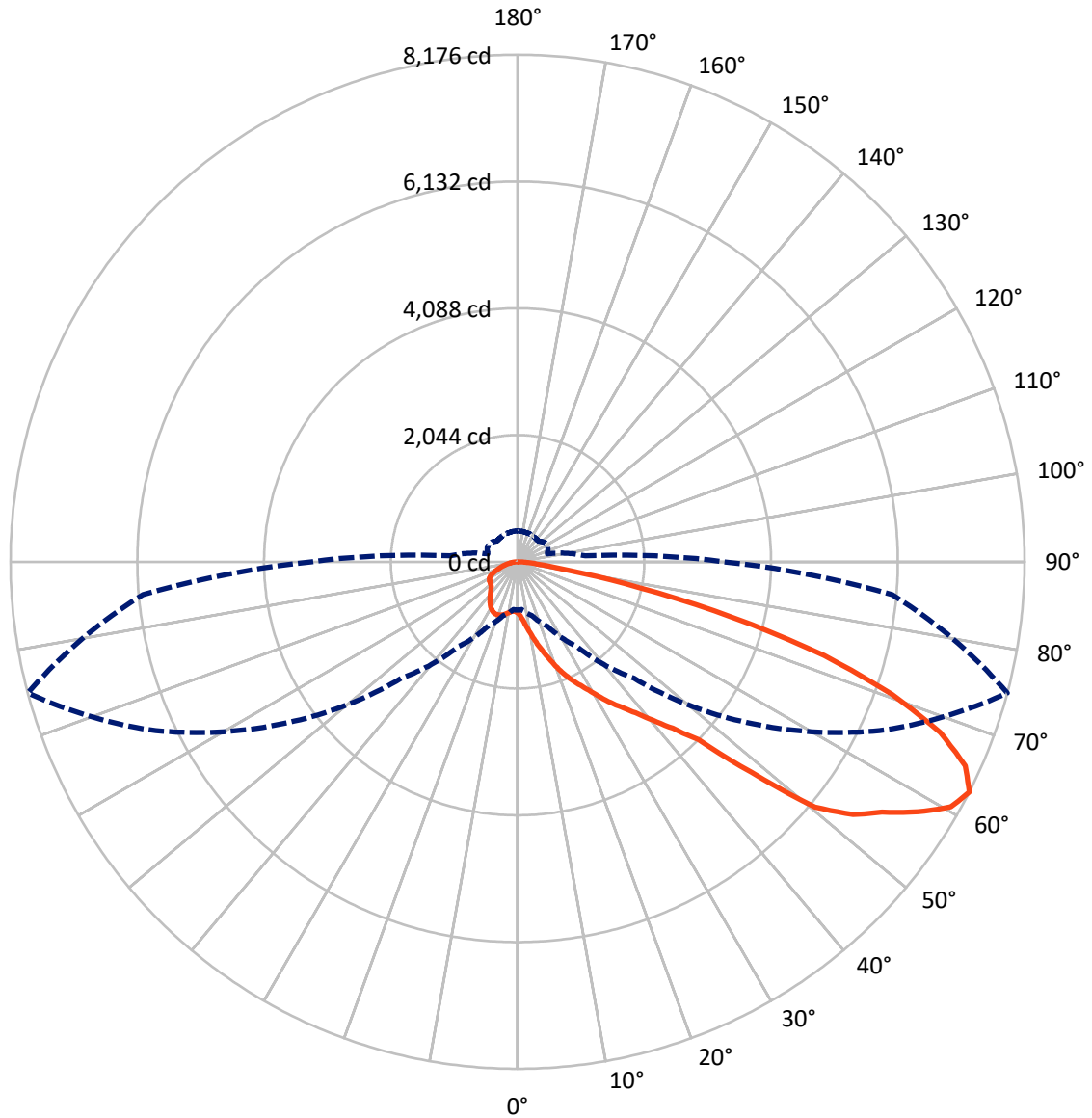
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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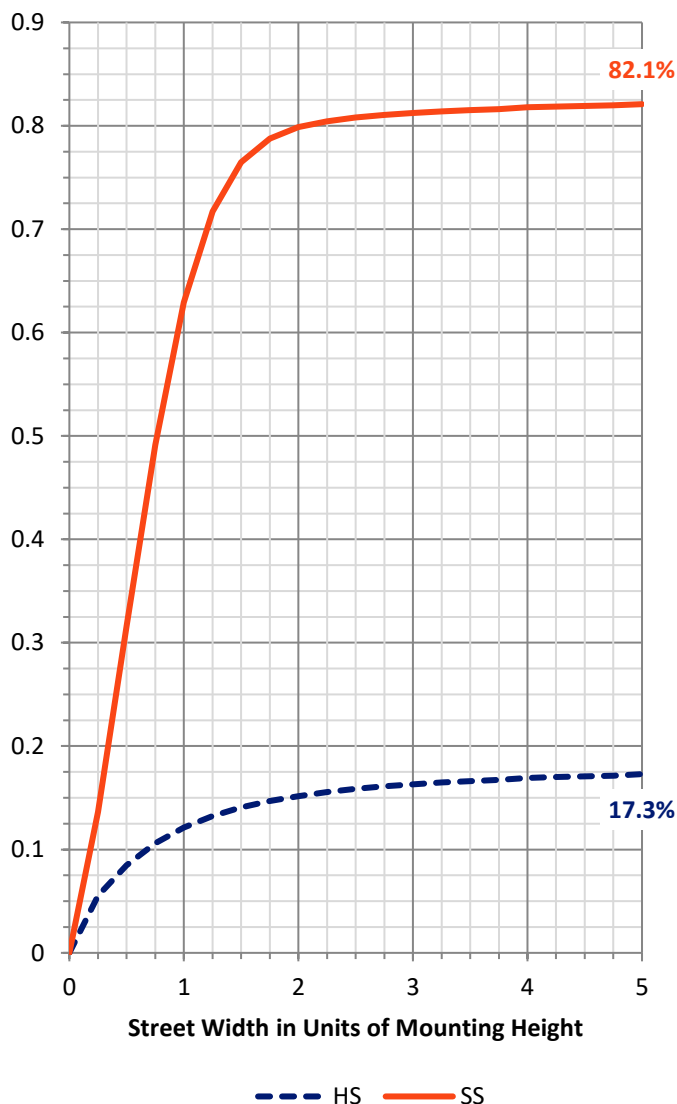
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.4	0.0	1670.4
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	7800.6	0.0	7800.6
	% Fixture	82.4	0.0	82.4
Total	Lumens	9471.0	0.0	9471.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	1.0
10°-20°	391.9	4.1
20°-30°	775.3	8.2
30°-40°	1292.4	13.6
40°-50°	1907.1	20.1
50°-60°	2292.5	24.2
60°-70°	1781.7	18.8
70°-80°	788.2	8.3
80°-90°	142.7	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°	9471.0	100.0
0°-180°	9471.0	100.0

Coefficient of Utilization

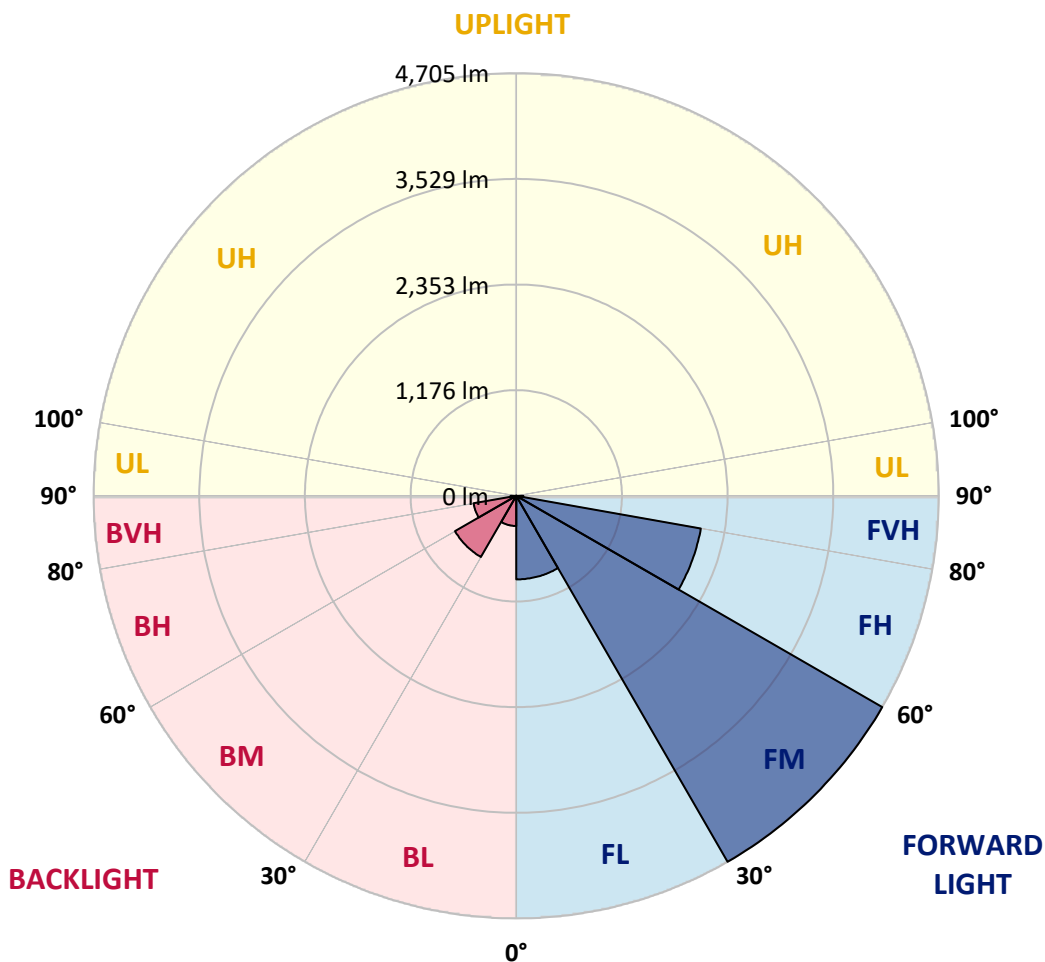


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	930.3	9.8			
FM (30°-60°)	4705.2	49.7			
FH (60°-80°)	2086.6	22.0			G2/5000
FVH (80°-90°)	78.4	0.8			G1/100
BL (0°-30°)	336.1	3.5	B1/500		
BM (30°-60°)	786.7	8.3	B1/1000		
BH (60°-80°)	483.3	5.1	B1/500		G1/500
BVH (80°-90°)	64.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6
2.5°	1055.6	1024.9	1024.9	991.7	994.2	966.1	935.5	904.8	871.6	846.0	833.2
5°	1380.2	1357.2	1349.5	1311.2	1249.8	1180.8	1106.7	1030.0	950.8	889.5	858.8
7.5°	1684.3	1666.4	1656.2	1612.8	1528.4	1454.3	1336.7	1196.2	1060.7	945.7	899.7
10°	1909.3	1896.5	1876.0	1855.6	1794.2	1730.3	1584.7	1385.3	1185.9	1014.7	945.7
12.5°	2072.8	2054.9	2054.9	2052.4	2011.5	1952.7	1817.2	1602.6	1331.6	1091.4	996.8
15°	2182.7	2180.2	2187.9	2203.2	2193.0	2154.6	2019.2	1801.9	1479.9	1178.3	1055.6
17.5°	2264.5	2254.3	2269.6	2310.5	2341.2	2325.9	2213.4	1993.6	1643.4	1272.8	1119.5
20°	2354.0	2333.5	2354.0	2405.1	2443.4	2466.4	2412.8	2177.6	1819.8	1375.1	1180.8
22.5°	2525.2	2522.7	2512.5	2527.8	2553.3	2594.2	2563.6	2364.2	1991.0	1477.3	1252.4
25°	2831.9	2803.8	2775.7	2742.5	2714.4	2727.1	2701.6	2538.0	2147.0	1589.8	1313.7
27.5°	3174.4	3143.8	3092.6	3010.9	2934.2	2888.2	2834.5	2688.8	2297.8	1692.0	1372.5
30°	3488.8	3478.6	3401.9	3312.4	3179.5	3095.2	2993.0	2862.6	2479.2	1804.5	1433.9
32.5°	3782.7	3762.3	3685.6	3591.0	3435.1	3340.6	3200.0	3051.7	2686.3	1942.5	1497.8
35°	4035.8	4015.3	3925.9	3805.7	3670.3	3588.5	3427.5	3220.4	2875.4	2062.6	1551.4
37.5°	4227.5	4204.5	4120.1	4002.5	3882.4	3844.1	3706.1	3435.1	3090.1	2213.4	1617.9
40°	4334.8	4306.7	4250.5	4168.7	4069.0	4051.1	3992.3	3700.9	3361.0	2397.4	1715.0
42.5°	4347.6	4322.0	4291.4	4283.7	4276.0	4291.4	4319.5	4002.5	3670.3	2642.8	1858.1
45°	4235.1	4219.8	4222.3	4309.3	4429.4	4570.0	4738.6	4447.3	4086.9	3110.5	2180.2
47.5°	3994.9	3987.2	4043.4	4189.1	4457.5	4777.0	5254.9	5208.9	5073.5	3864.5	2594.2
50°	3606.4	3593.6	3713.7	3943.8	4327.1	4846.0	5602.5	6106.0	6218.5	4449.8	2865.2
52.5°	3049.2	3064.5	3251.1	3565.5	4028.1	4771.9	5745.7	6474.1	6770.6	4881.8	3072.2
55°	2479.2	2456.2	2624.9	3013.4	3585.9	4500.9	5773.8	6686.2	7128.4	5280.5	3274.1
57.5°	1807.0	1863.3	2042.2	2394.9	3016.0	4010.2	5610.2	6831.9	7608.9	5679.2	3460.7
60°	1224.3	1224.3	1382.7	1735.5	2331.0	3414.7	5173.1	6778.3	8028.1	5991.0	3501.6
62.5°	779.5	771.9	899.7	1150.2	1669.0	2653.0	4518.8	6440.9	8176.3	6065.2	3330.3
65°	493.3	503.5	549.5	702.9	1068.4	1883.7	3626.8	5768.7	7933.5	5893.9	3031.3
67.5°	396.2	398.7	421.7	485.6	656.9	1208.9	2688.8	4840.9	7353.3	5462.0	2681.1
70°	350.2	355.3	360.4	383.4	449.8	764.2	1766.1	3897.7	6402.5	4710.5	2305.4
72.5°	319.5	324.6	329.7	334.8	370.6	498.4	1042.8	2954.6	5165.5	3619.2	1758.5
75°	293.9	299.0	299.0	301.6	322.0	370.6	572.5	2037.1	3596.2	2251.7	1096.5
77.5°	263.3	265.8	265.8	270.9	291.4	291.4	355.3	1260.1	1996.2	1019.8	554.6
80°	222.4	227.5	227.5	235.1	255.6	224.9	237.7	644.1	828.1	419.2	247.9
82.5°	163.6	173.8	178.9	191.7	204.5	171.2	171.2	324.6	350.2	186.6	132.9
85°	89.5	92.0	132.9	143.1	150.8	102.2	115.0	161.0	173.8	81.8	66.5
87.5°	25.6	28.1	63.9	79.2	71.6	43.5	48.6	61.3	61.3	23.0	17.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6	825.6
2.5°	823.0	802.6	784.7	771.9	759.1	751.4	748.9	743.8	743.8	746.3
5°	833.2	797.4	769.3	754.0	743.8	738.7	736.1	736.1	738.7	738.7
7.5°	858.8	805.1	779.5	766.8	756.5	751.4	751.4	748.9	751.4	751.4
10°	894.6	828.1	800.0	784.7	777.0	769.3	766.8	764.2	764.2	764.2
12.5°	932.9	853.7	823.0	805.1	792.3	782.1	777.0	771.9	769.3	769.3
15°	968.7	879.2	838.3	817.9	800.0	784.7	774.4	766.8	764.2	764.2
17.5°	1007.0	897.1	848.6	820.4	797.4	777.0	764.2	754.0	748.9	748.9
20°	1047.9	909.9	848.6	812.8	782.1	761.7	746.3	736.1	725.9	725.9
22.5°	1081.1	915.0	838.3	794.9	764.2	738.7	723.3	710.5	702.9	702.9
25°	1109.3	909.9	815.3	766.8	731.0	708.0	692.6	682.4	674.8	674.8
27.5°	1127.2	889.5	787.2	736.1	702.9	679.9	669.6	659.4	654.3	654.3
30°	1137.4	863.9	751.4	702.9	669.6	656.9	651.8	641.5	633.9	631.3
32.5°	1142.5	825.6	715.7	669.6	646.6	641.5	641.5	628.8	618.5	616.0
35°	1137.4	784.7	679.9	641.5	633.9	636.4	631.3	616.0	603.2	598.1
37.5°	1129.7	736.1	641.5	621.1	628.8	633.9	618.5	598.1	577.6	572.5
40°	1124.6	692.6	610.9	600.6	623.6	626.2	598.1	559.7	544.4	539.3
42.5°	1150.2	649.2	582.7	585.3	610.9	613.4	562.3	544.4	534.2	531.6
45°	1237.1	610.9	559.7	575.1	595.5	585.3	544.4	541.9	534.2	531.6
47.5°	1303.5	582.7	549.5	567.4	582.7	547.0	541.9	539.3	531.6	529.1
50°	1326.5	564.9	547.0	562.3	564.9	529.1	536.7	536.7	529.1	526.5
52.5°	1329.1	554.6	552.1	559.7	536.7	521.4	531.6	531.6	524.0	521.4
55°	1339.3	549.5	554.6	559.7	506.1	511.2	521.4	524.0	516.3	513.7
57.5°	1318.8	541.9	559.7	562.3	493.3	501.0	511.2	511.2	511.2	511.2
60°	1239.6	526.5	557.2	557.2	483.1	488.2	498.4	503.5	506.1	506.1
62.5°	1093.9	495.8	541.9	541.9	472.8	478.0	490.7	490.7	498.4	498.4
65°	909.9	452.4	511.2	508.6	462.6	467.7	483.1	478.0	490.7	493.3
67.5°	759.1	398.7	465.2	470.3	452.4	465.2	475.4	457.5	483.1	483.1
70°	605.7	334.8	403.8	426.8	434.5	467.7	460.1	431.9	465.2	457.5
72.5°	470.3	283.7	332.3	373.2	414.1	465.2	426.8	396.2	416.6	403.8
75°	342.5	235.1	273.5	309.3	385.9	457.5	393.6	347.6	347.6	342.5
77.5°	240.3	191.7	219.8	245.4	357.8	437.1	352.7	299.0	286.3	283.7
80°	163.6	150.8	173.8	189.1	316.9	396.2	304.2	247.9	224.9	219.8
82.5°	107.3	107.3	117.6	127.8	245.4	329.7	237.7	184.0	237.7	227.5
85°	61.3	63.9	63.9	74.1	135.5	232.6	168.7	184.0	109.9	102.2
87.5°	20.4	20.4	20.4	20.4	28.1	94.6	71.6	66.5	25.6	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)