

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: P573329

Luminaire Tested: **ARCH-S-PA2-60-750-U-T2R**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P573329
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-PA2-60-750-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 625mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9495 lumens
Efficiency: N/A
Efficacy: 150.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

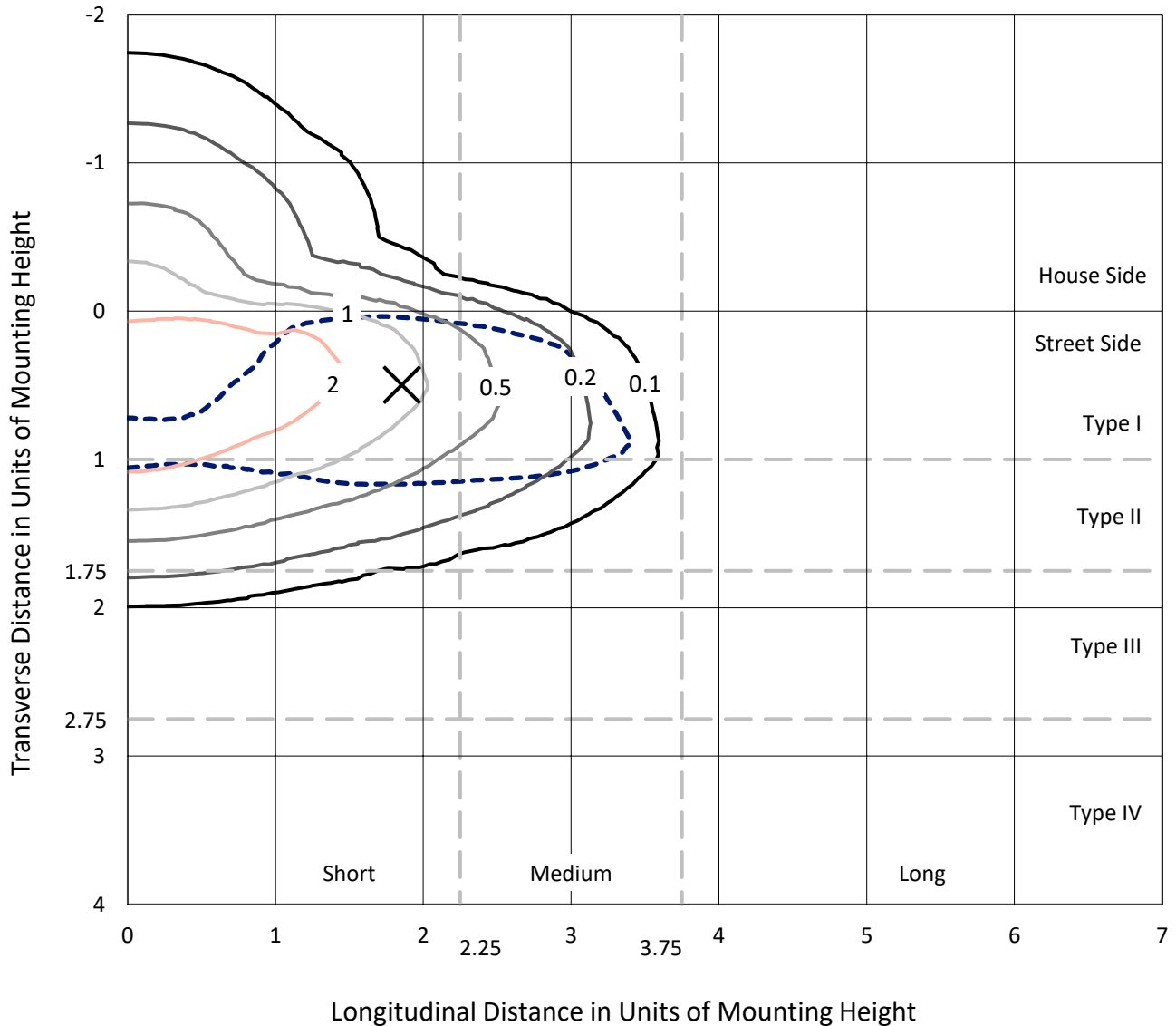
Input Watts (W): 63.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

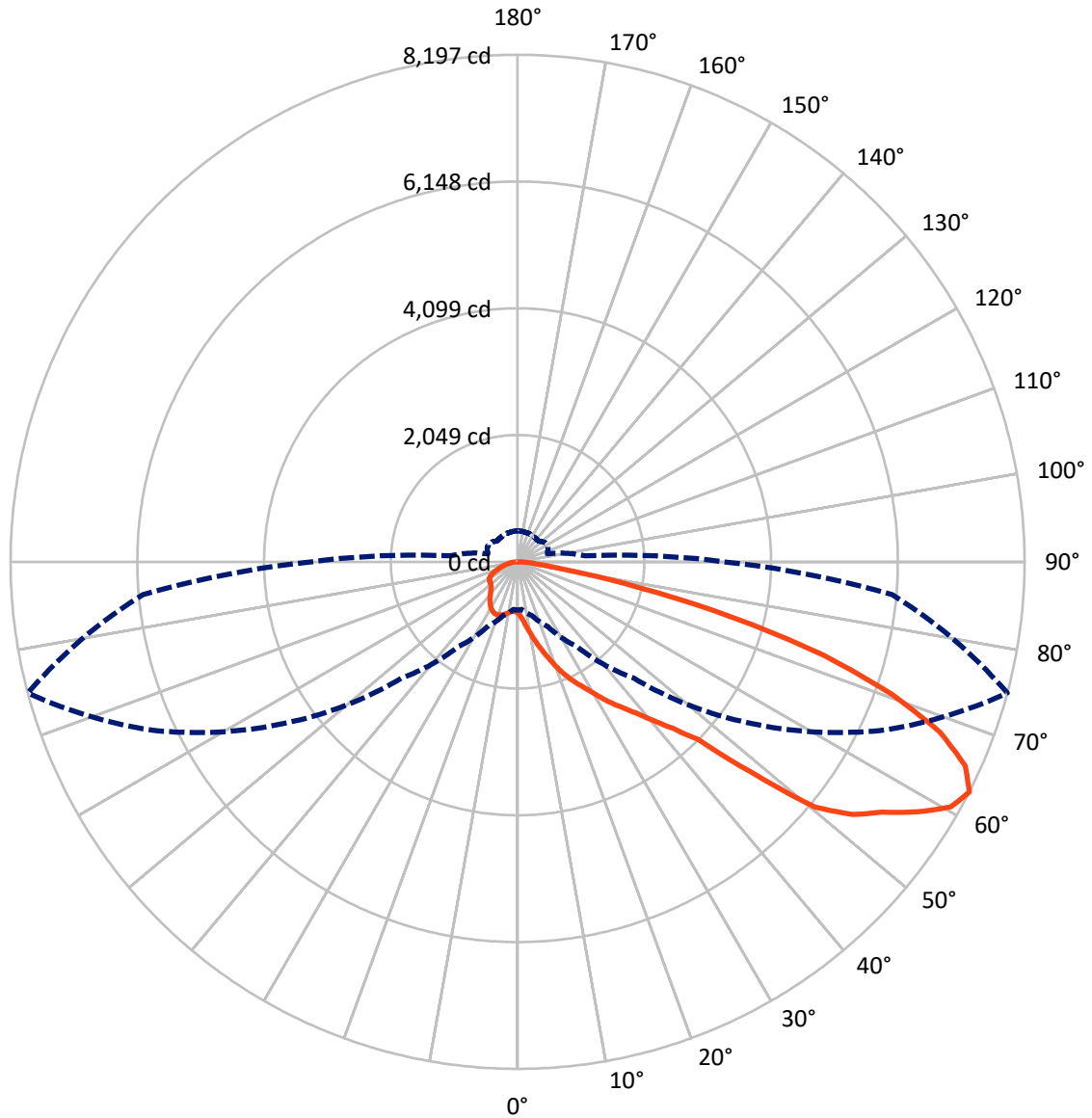
✕ Max cd
 - - - 1/2 Max cd



Based on 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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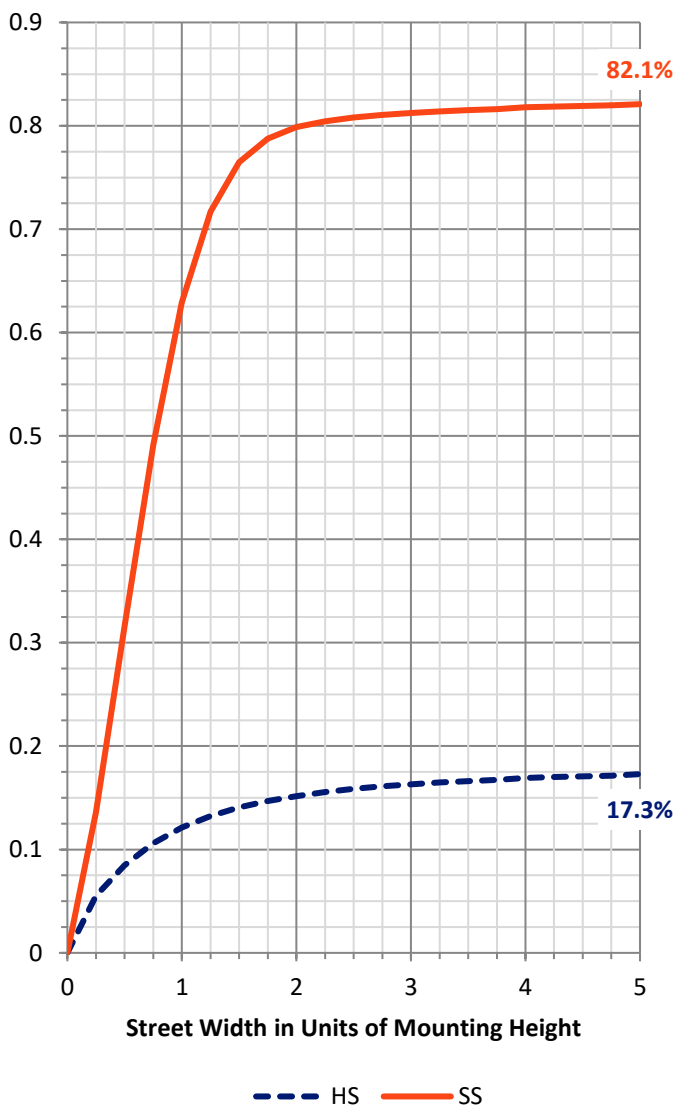
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1674.7	0.0	1674.7
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	7820.3	0.0	7820.3
	% Fixture	82.4	0.0	82.4
Total	Lumens	9495.0	0.0	9495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.0
10°-20°	392.9	4.1
20°-30°	777.3	8.2
30°-40°	1295.7	13.6
40°-50°	1911.9	20.1
50°-60°	2298.3	24.2
60°-70°	1786.2	18.8
70°-80°	790.2	8.3
80°-90°	143.1	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°	9495.0	100.0
0°-180°	9495.0	100.0

Coefficient of Utilization



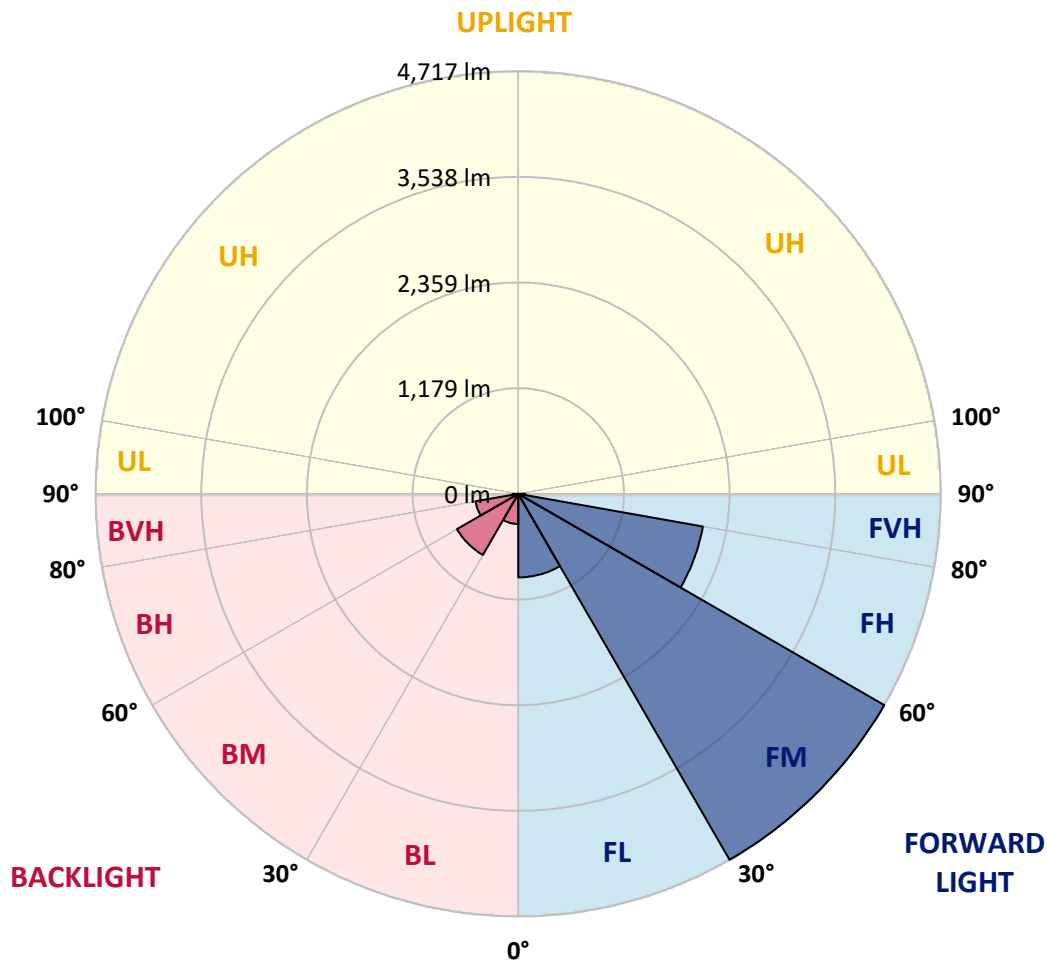
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	932.7	9.8			
FM (30°-60°)	4717.1	49.7			
FH (60°-80°)	2091.9	22.0			G2/5000
FVH (80°-90°)	78.6	0.8			G1/100
BL (0°-30°)	337.0	3.5	B1/500		
BM (30°-60°)	788.7	8.3	B1/1000		
BH (60°-80°)	484.5	5.1	B1/500		G1/500
BVH (80°-90°)	64.4	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°	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6
2.5°	1058.3	1027.5	1027.5	994.2	996.8	968.6	937.8	907.1	873.8	848.1	835.3
5°	1383.7	1360.6	1352.9	1314.5	1253.0	1183.8	1109.5	1032.6	953.2	891.7	861.0
7.5°	1688.6	1670.7	1660.4	1616.9	1532.3	1458.0	1340.1	1199.2	1063.4	948.1	902.0
10°	1914.1	1901.3	1880.8	1860.3	1798.8	1734.7	1588.7	1388.8	1188.9	1017.3	948.1
12.5°	2078.1	2060.2	2060.2	2057.6	2016.6	1957.7	1821.9	1606.6	1335.0	1094.1	999.3
15°	2188.3	2185.7	2193.4	2208.8	2198.5	2160.1	2024.3	1806.5	1483.6	1181.3	1058.3
17.5°	2270.3	2260.0	2275.4	2316.4	2347.1	2331.8	2219.0	1998.7	1647.6	1276.1	1122.3
20°	2360.0	2339.5	2360.0	2411.2	2449.6	2472.7	2418.9	2183.1	1824.4	1378.6	1183.8
22.5°	2531.6	2529.1	2518.8	2534.2	2559.8	2600.8	2570.1	2370.2	1996.1	1481.1	1255.6
25°	2839.1	2810.9	2782.7	2749.4	2721.2	2734.1	2708.4	2544.4	2152.4	1593.8	1317.1
27.5°	3182.5	3151.7	3100.5	3018.5	2941.6	2895.5	2841.7	2695.6	2303.6	1696.3	1376.0
30°	3497.6	3487.4	3410.5	3320.8	3187.6	3103.0	3000.5	2869.9	2485.5	1809.0	1437.5
32.5°	3792.3	3771.8	3694.9	3600.1	3443.8	3349.0	3208.1	3059.5	2693.1	1947.4	1501.6
35°	4046.0	4025.5	3935.8	3815.4	3679.6	3597.6	3436.1	3228.6	2882.7	2067.8	1555.4
37.5°	4238.2	4215.1	4130.6	4012.7	3892.3	3853.8	3715.4	3443.8	3097.9	2219.0	1622.0
40°	4345.8	4317.6	4261.2	4179.2	4079.3	4061.4	4002.4	3710.3	3369.5	2403.5	1719.4
42.5°	4358.6	4333.0	4302.2	4294.5	4286.9	4302.2	4330.4	4012.7	3679.6	2649.5	1862.8
45°	4245.9	4230.5	4233.0	4320.2	4440.6	4581.5	4750.6	4458.5	4097.2	3118.4	2185.7
47.5°	4005.0	3997.3	4053.7	4199.7	4468.8	4789.1	5268.2	5222.1	5086.3	3874.3	2600.8
50°	3615.5	3602.7	3723.1	3953.7	4338.1	4858.3	5616.7	6121.5	6234.3	4461.1	2872.4
52.5°	3056.9	3072.3	3259.3	3574.5	4038.3	4784.0	5760.2	6490.5	6787.7	4894.1	3080.0
55°	2485.5	2462.4	2631.6	3021.0	3595.0	4512.3	5788.4	6703.2	7146.5	5293.9	3282.4
57.5°	1811.6	1868.0	2047.3	2400.9	3023.6	4020.4	5624.4	6849.2	7628.2	5693.6	3469.5
60°	1227.4	1227.4	1386.2	1739.9	2336.9	3423.3	5186.3	6795.4	8048.4	6006.2	3510.5
62.5°	781.5	773.8	902.0	1153.1	1673.2	2659.7	4530.3	6457.2	8197.0	6080.5	3338.8
65°	494.5	504.8	550.9	704.7	1071.1	1888.5	3636.0	5783.3	7953.6	5908.8	3039.0
67.5°	397.2	399.7	422.8	486.9	658.5	1212.0	2695.6	4853.1	7372.0	5475.8	2687.9
70°	351.0	356.2	361.3	384.4	451.0	766.2	1770.6	3907.6	6418.8	4722.5	2311.3
72.5°	320.3	325.4	330.5	335.7	371.5	499.7	1045.5	2962.1	5178.6	3628.3	1762.9
75°	294.7	299.8	299.8	302.4	322.9	371.5	574.0	2042.2	3605.3	2257.5	1099.3
77.5°	263.9	266.5	266.5	271.6	292.1	292.1	356.2	1263.3	2001.2	1022.4	556.0
80°	222.9	228.1	228.1	235.7	256.2	225.5	238.3	645.7	830.2	420.2	248.6
82.5°	164.0	174.2	179.4	192.2	205.0	171.7	171.7	325.4	351.0	187.1	133.2
85°	89.7	92.2	133.2	143.5	151.2	102.5	115.3	161.4	174.2	82.0	66.6
87.5°	25.6	28.2	64.1	79.4	71.7	43.6	48.7	61.5	61.5	23.1	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°	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6	827.6
2.5°	825.1	804.6	786.7	773.8	761.0	753.3	750.8	745.7	745.7	748.2
5°	835.3	799.5	771.3	755.9	745.7	740.5	738.0	738.0	740.5	740.5
7.5°	861.0	807.1	781.5	768.7	758.5	753.3	753.3	750.8	753.3	753.3
10°	896.8	830.2	802.0	786.7	779.0	771.3	768.7	766.2	766.2	766.2
12.5°	935.3	855.8	825.1	807.1	794.3	784.1	779.0	773.8	771.3	771.3
15°	971.1	881.5	840.5	820.0	802.0	786.7	776.4	768.7	766.2	766.2
17.5°	1009.6	899.4	850.7	822.5	799.5	779.0	766.2	755.9	750.8	750.8
20°	1050.6	912.2	850.7	814.8	784.1	763.6	748.2	738.0	727.7	727.7
22.5°	1083.9	917.3	840.5	796.9	766.2	740.5	725.2	712.3	704.7	704.7
25°	1112.1	912.2	817.4	768.7	732.8	709.8	694.4	684.2	676.5	676.5
27.5°	1130.0	891.7	789.2	738.0	704.7	681.6	671.3	661.1	656.0	656.0
30°	1140.3	866.1	753.3	704.7	671.3	658.5	653.4	643.2	635.5	632.9
32.5°	1145.4	827.6	717.5	671.3	648.3	643.2	643.2	630.3	620.1	617.5
35°	1140.3	786.7	681.6	643.2	635.5	638.0	632.9	617.5	604.7	599.6
37.5°	1132.6	738.0	643.2	622.7	630.3	635.5	620.1	599.6	579.1	574.0
40°	1127.4	694.4	612.4	602.2	625.2	627.8	599.6	561.2	545.8	540.7
42.5°	1153.1	650.8	584.2	586.8	612.4	615.0	563.7	545.8	535.5	533.0
45°	1240.2	612.4	561.2	576.5	597.0	586.8	545.8	543.2	535.5	533.0
47.5°	1306.8	584.2	550.9	568.8	584.2	548.3	543.2	540.7	533.0	530.4
50°	1329.9	566.3	548.3	563.7	566.3	530.4	538.1	538.1	530.4	527.8
52.5°	1332.4	556.0	553.5	561.2	538.1	522.7	533.0	533.0	525.3	522.7
55°	1342.7	550.9	556.0	561.2	507.4	512.5	522.7	525.3	517.6	515.0
57.5°	1322.2	543.2	561.2	563.7	494.5	502.2	512.5	512.5	512.5	512.5
60°	1242.8	527.8	558.6	558.6	484.3	489.4	499.7	504.8	507.4	507.4
62.5°	1096.7	497.1	543.2	543.2	474.0	479.2	492.0	492.0	499.7	499.7
65°	912.2	453.5	512.5	509.9	463.8	468.9	484.3	479.2	492.0	494.5
67.5°	761.0	399.7	466.4	471.5	453.5	466.4	476.6	458.7	484.3	484.3
70°	607.3	335.7	404.9	427.9	435.6	468.9	461.2	433.0	466.4	458.7
72.5°	471.5	284.4	333.1	374.1	415.1	466.4	427.9	397.2	417.7	404.9
75°	343.4	235.7	274.2	310.0	386.9	458.7	394.6	348.5	348.5	343.4
77.5°	240.9	192.2	220.4	246.0	358.7	438.2	353.6	299.8	287.0	284.4
80°	164.0	151.2	174.2	189.6	317.7	397.2	304.9	248.6	225.5	220.4
82.5°	107.6	107.6	117.9	128.1	246.0	330.5	238.3	184.5	238.3	228.1
85°	61.5	64.1	64.1	74.3	135.8	233.2	169.1	184.5	110.2	102.5
87.5°	20.5	20.5	20.5	20.5	28.2	94.8	71.7	66.6	25.6	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)