

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: P400276

Luminaire Tested: **ARCH-L-PA3-260-727-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-260-727-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20978 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G4

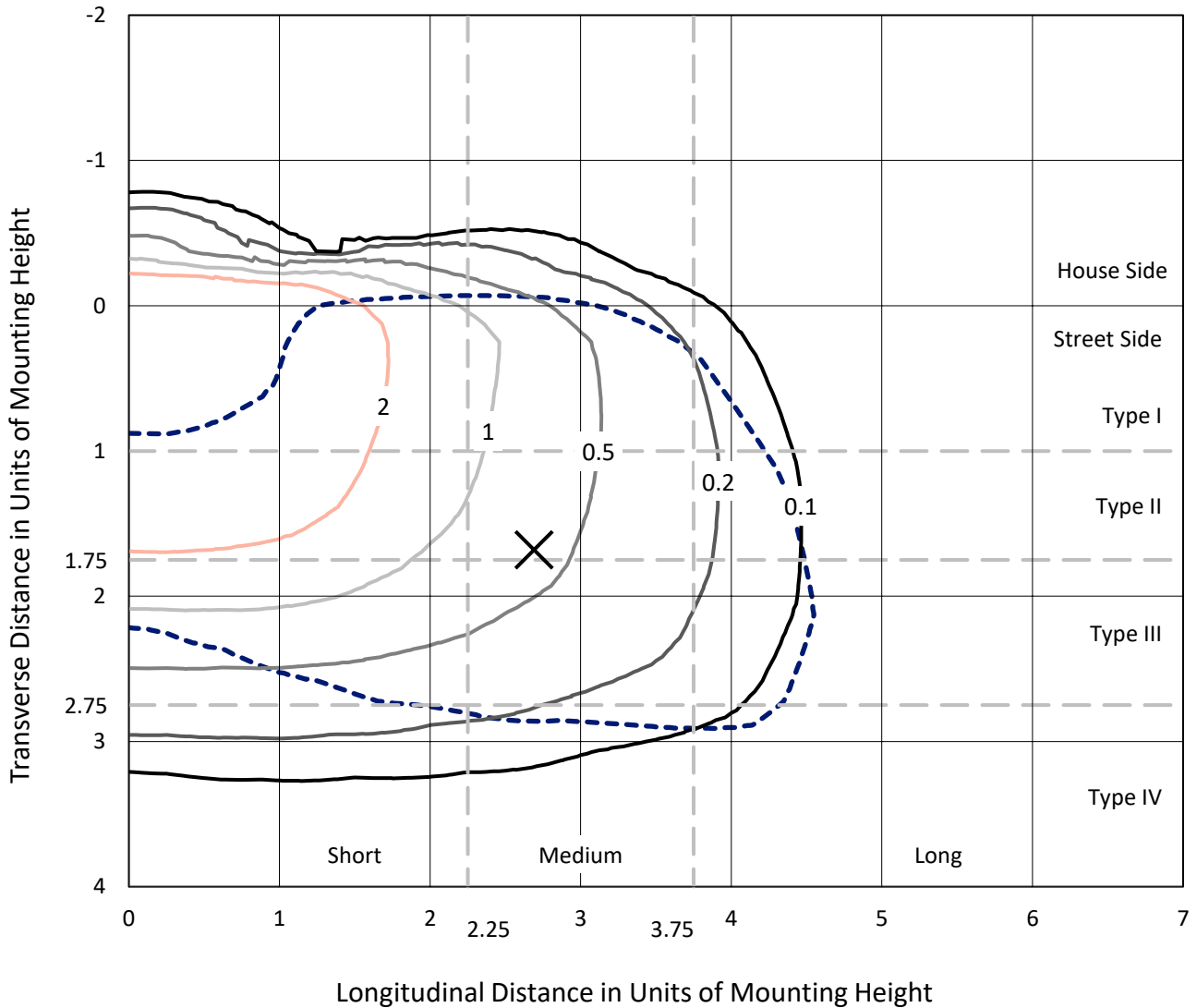
Input Watts (W): 261
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400276
 CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

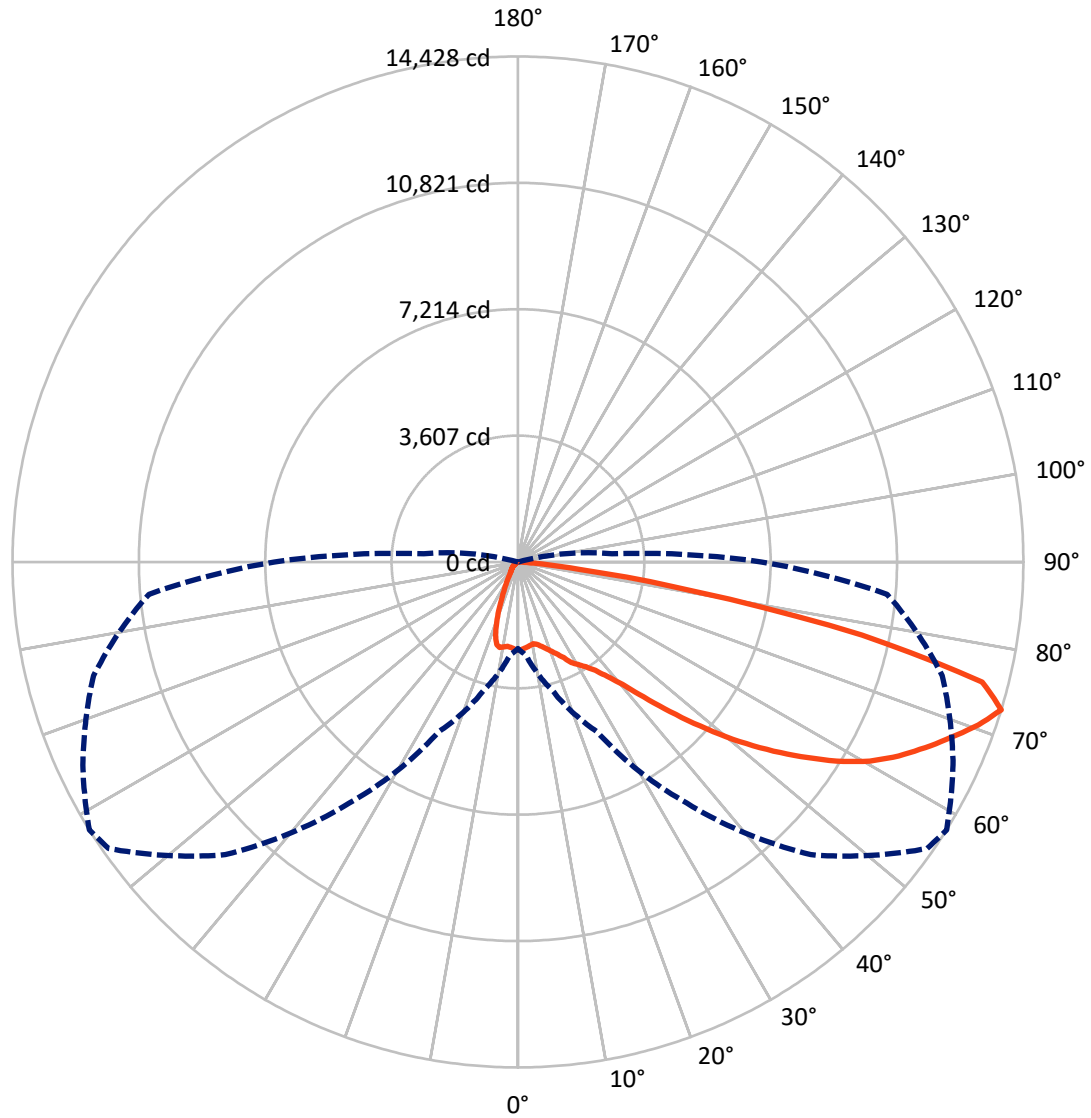
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400276
CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P400276
 CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3-HSS

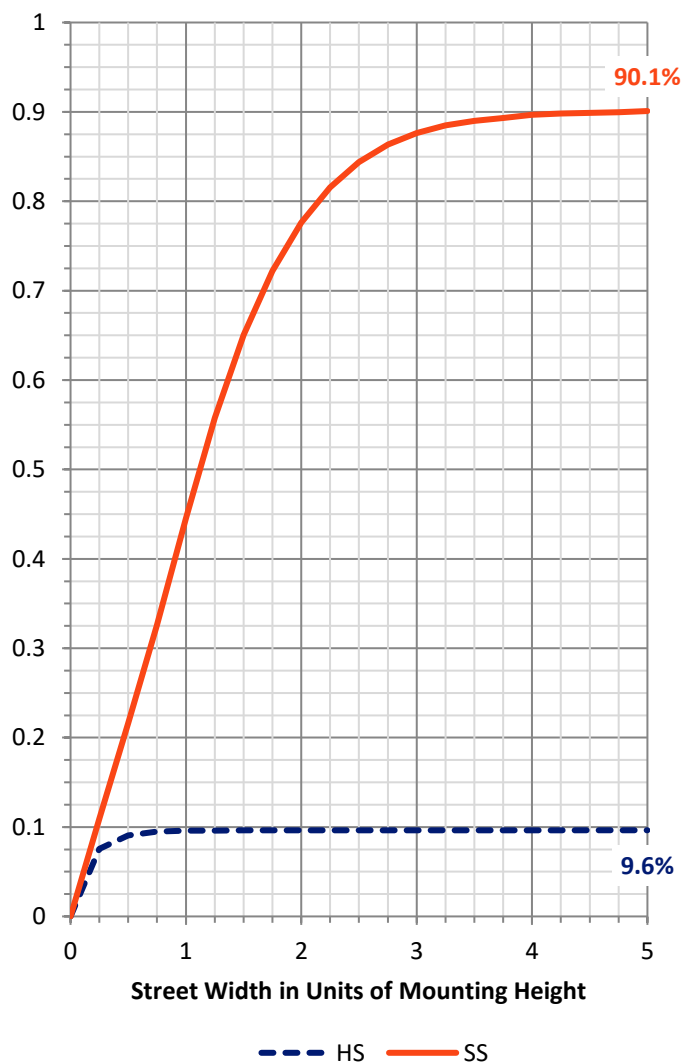
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2040.0	0.0	2040.0
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	18938.0	0.0	18938.0
	% Fixture	90.3	0.0	90.3
Total	Lumens	20978.0	0.0	20978.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.1
10°-20°	601.7	2.9
20°-30°	945.2	4.5
30°-40°	1630.1	7.8
40°-50°	3101.5	14.8
50°-60°	4911.7	23.4
60°-70°	5731.4	27.3
70°-80°	3589.6	17.1
80°-90°	235.6	1.1
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°	20978.0	100.0
0°-180°	20978.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400276

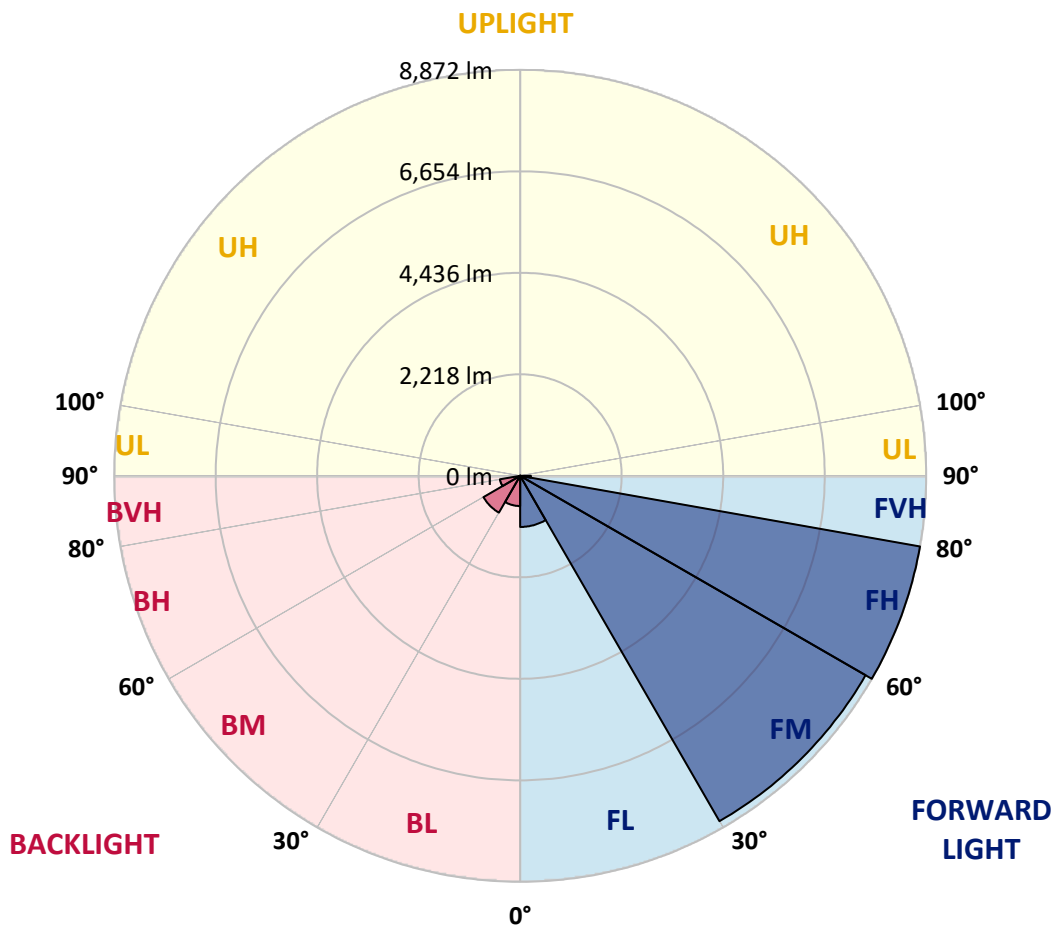
CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1117.4	5.3			
FM (30°-60°)	8715.1	41.5			
FH (60°-80°)	8872.2	42.3			G4/12000
FVH (80°-90°)	233.3	1.1			G3/500
BL (0°-30°)	660.6	3.1	B2/1000		
BM (30°-60°)	928.2	4.4	B1/1000		
BH (60°-80°)	448.9	2.1	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Medium





REPORT NUMBER: P400276

CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2506.0	2494.7	2491.0	2487.2	2491.0	2494.7	2483.5	2494.7	2487.2	2491.0	2498.5
5°	2415.9	2404.7	2400.9	2404.7	2415.9	2434.7	2442.2	2453.5	2453.5	2464.7	2468.5
7.5°	2314.7	2307.2	2303.4	2310.9	2333.4	2374.7	2397.2	2412.2	2427.2	2449.7	2472.2
10°	2258.4	2254.6	2250.9	2262.1	2284.6	2322.2	2352.2	2374.7	2430.9	2494.7	2536.0
12.5°	2220.9	2220.9	2228.4	2250.9	2280.9	2310.9	2382.2	2412.2	2498.5	2596.0	2652.3
15°	2190.9	2190.9	2202.1	2243.4	2284.6	2355.9	2461.0	2494.7	2596.0	2716.1	2791.1
17.5°	2168.3	2175.8	2183.4	2224.6	2303.4	2423.4	2547.2	2596.0	2719.8	2851.1	2933.6
20°	2172.1	2179.6	2183.4	2224.6	2337.2	2502.2	2659.8	2716.1	2858.6	2997.4	3080.0
22.5°	2194.6	2205.9	2209.6	2265.9	2397.2	2584.8	2787.3	2851.1	3004.9	3151.2	3215.0
25°	2288.4	2295.9	2273.4	2322.2	2483.5	2712.3	2952.4	3019.9	3173.7	3308.8	3361.3
27.5°	2607.3	2614.8	2491.0	2434.7	2551.0	2817.3	3155.0	3248.8	3440.1	3530.1	3537.6
30°	3297.5	3305.0	3061.2	2794.8	2712.3	2907.4	3267.5	3398.8	3646.4	3747.7	3702.7
32.5°	4186.6	4179.1	3845.3	3451.3	3095.0	3064.9	3428.8	3567.6	3837.7	3935.3	3901.5
35°	5079.5	5090.7	4805.6	4212.9	3702.7	3361.3	3635.2	3796.5	4122.9	4261.7	4201.6
37.5°	5691.0	5766.0	5642.2	5000.7	4449.2	3909.0	3969.0	4141.6	4550.5	4738.1	4610.5
40°	6553.8	6535.0	6234.9	5762.2	5274.6	4719.3	4509.3	4591.8	5060.7	5312.1	5113.2
42.5°	7713.0	7675.5	7165.3	6703.9	6159.9	5706.0	5278.3	5263.3	5646.0	5938.6	5649.7
45°	8763.4	8707.1	8358.3	7911.8	7315.4	6793.9	6216.2	6084.9	6351.2	6598.8	6261.2
47.5°	9600.0	9506.2	9258.6	9022.3	8876.0	8065.6	7199.1	7000.2	7135.3	7319.1	6842.7
50°	10590.4	10331.5	9971.4	9828.8	10132.7	9506.2	8144.4	7953.1	7945.6	8050.6	7442.9
52.5°	11040.6	10571.6	10369.0	10489.1	11025.6	10845.5	9164.8	8891.0	8782.2	8793.4	8001.9
55°	10496.6	10444.1	10552.9	10928.0	11629.5	11524.5	10144.0	9806.3	9645.0	9442.4	8538.3
57.5°	9877.6	10038.9	10470.3	11186.9	12394.8	12233.5	11108.1	10725.4	10429.1	9963.9	9134.8
60°	9307.4	9472.4	10185.2	11246.9	12815.0	12916.3	11910.9	11547.0	11108.1	10496.6	9791.3
62.5°	8440.8	8568.3	9570.0	11160.6	12631.2	13313.9	12469.9	12196.0	11787.1	11003.0	10545.4
65°	7465.4	7547.9	8538.3	10470.3	12271.0	13268.9	12931.3	12777.5	12379.8	11532.0	11291.9
67.5°	6396.2	6493.8	7319.1	9228.6	11565.8	13058.8	13366.5	13351.5	12897.5	12117.2	11832.1
70°	5165.8	5173.3	5856.0	7653.0	10335.3	12638.7	13906.7	13940.4	13392.7	12556.1	11854.6
72.5°	2472.2	2674.8	3796.5	5342.1	8399.5	11813.4	14259.3	14428.1	13704.1	12541.1	10575.4
75°	566.5	585.2	1106.7	2539.7	4925.7	9067.3	13377.7	13692.8	12946.3	10845.5	7450.4
77.5°	206.3	217.6	311.4	742.8	1894.5	4685.6	9573.7	10035.2	9570.0	7011.5	3522.6
80°	138.8	135.1	161.3	330.1	870.3	1328.0	4895.7	5169.5	4719.3	2393.4	844.1
82.5°	71.3	75.0	112.5	183.8	585.2	461.4	1635.6	1778.2	1463.1	480.2	157.6
85°	33.8	33.8	63.8	116.3	247.6	161.3	363.9	438.9	393.9	210.1	52.5
87.5°	33.8	33.8	60.0	75.0	127.5	67.5	90.0	112.5	105.0	112.5	18.8
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: P400276
 CATALOG NUMBER: ARCH-L-PA3-260-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2	2517.2
2.5°	2498.5	2494.7	2491.0	2498.5	2494.7	2502.2	2502.2	2509.7	2509.7	2502.2	2498.5
5°	2464.7	2457.2	2449.7	2449.7	2446.0	2453.5	2476.0	2494.7	2498.5	2487.2	2483.5
7.5°	2468.5	2468.5	2461.0	2446.0	2419.7	2419.7	2419.7	2442.2	2453.5	2446.0	2442.2
10°	2536.0	2539.7	2521.0	2487.2	2442.2	2400.9	2322.2	2205.9	2097.1	2067.1	2055.8
12.5°	2652.3	2656.0	2618.5	2558.5	2464.7	2220.9	1920.7	1643.1	1429.3	1369.3	1358.0
15°	2791.1	2794.8	2727.3	2629.8	2344.7	1778.2	1331.8	1016.6	829.1	784.1	780.3
17.5°	2933.6	2926.1	2824.9	2637.3	1988.3	1260.5	810.3	649.0	600.2	589.0	592.7
20°	3072.4	3049.9	2911.1	2498.5	1530.6	825.3	592.7	555.2	544.0	536.5	536.5
22.5°	3200.0	3155.0	2982.4	2224.6	1072.9	592.7	529.0	521.5	506.4	495.2	491.4
25°	3327.5	3263.8	3027.4	1868.2	720.3	517.7	498.9	483.9	465.2	450.2	446.4
27.5°	3481.4	3391.3	3004.9	1418.1	540.2	480.2	465.2	442.7	416.4	393.9	386.4
30°	3627.7	3526.4	2877.4	979.1	461.4	442.7	420.2	386.4	352.6	326.4	318.9
32.5°	3811.5	3695.2	2648.5	641.5	401.4	386.4	363.9	322.6	277.6	247.6	240.1
35°	4074.1	3942.8	2355.9	450.2	352.6	326.4	296.4	251.3	202.6	180.1	176.3
37.5°	4441.7	4265.4	1988.3	363.9	311.4	273.9	228.8	183.8	150.1	131.3	127.5
40°	4891.9	4621.8	1579.4	322.6	277.6	228.8	172.6	131.3	108.8	93.8	93.8
42.5°	5379.6	4955.7	1163.0	296.4	243.8	187.6	127.5	93.8	78.8	71.3	67.5
45°	5882.3	5252.0	784.1	273.9	213.8	142.6	90.0	63.8	52.5	52.5	48.8
47.5°	6403.7	5450.9	506.4	247.6	180.1	105.0	60.0	45.0	37.5	37.5	37.5
50°	6921.5	5555.9	360.1	225.1	146.3	71.3	45.0	33.8	30.0	30.0	30.0
52.5°	7296.6	5488.4	288.9	195.1	112.5	52.5	33.8	26.3	22.5	22.5	22.5
55°	7623.0	5372.1	251.3	168.8	82.5	37.5	26.3	22.5	18.8	18.8	18.8
57.5°	7956.9	5222.0	225.1	142.6	60.0	26.3	18.8	15.0	15.0	15.0	15.0
60°	8260.7	4966.9	195.1	112.5	41.3	18.8	15.0	11.3	11.3	11.3	11.3
62.5°	8557.1	4749.4	168.8	86.3	30.0	15.0	7.5	7.5	3.8	3.8	3.8
65°	8725.9	4456.7	135.1	56.3	18.8	11.3	3.8	3.8	0.0	0.0	0.0
67.5°	8673.4	4107.9	93.8	33.8	11.3	7.5	3.8	0.0	0.0	0.0	0.0
70°	8309.5	3638.9	56.3	18.8	11.3	7.5	3.8	0.0	0.0	0.0	0.0
72.5°	6959.0	2693.6	33.8	15.0	7.5	3.8	0.0	0.0	0.0	0.0	0.0
75°	4648.1	1238.0	18.8	11.3	3.8	3.8	0.0	0.0	0.0	0.0	0.0
77.5°	2127.1	371.4	11.3	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	427.7	97.5	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.0	18.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.8	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)