

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: P400157

Luminaire Tested: **ARCH-L-PA3-240-750-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400157
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-750-U-T2U-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22666 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

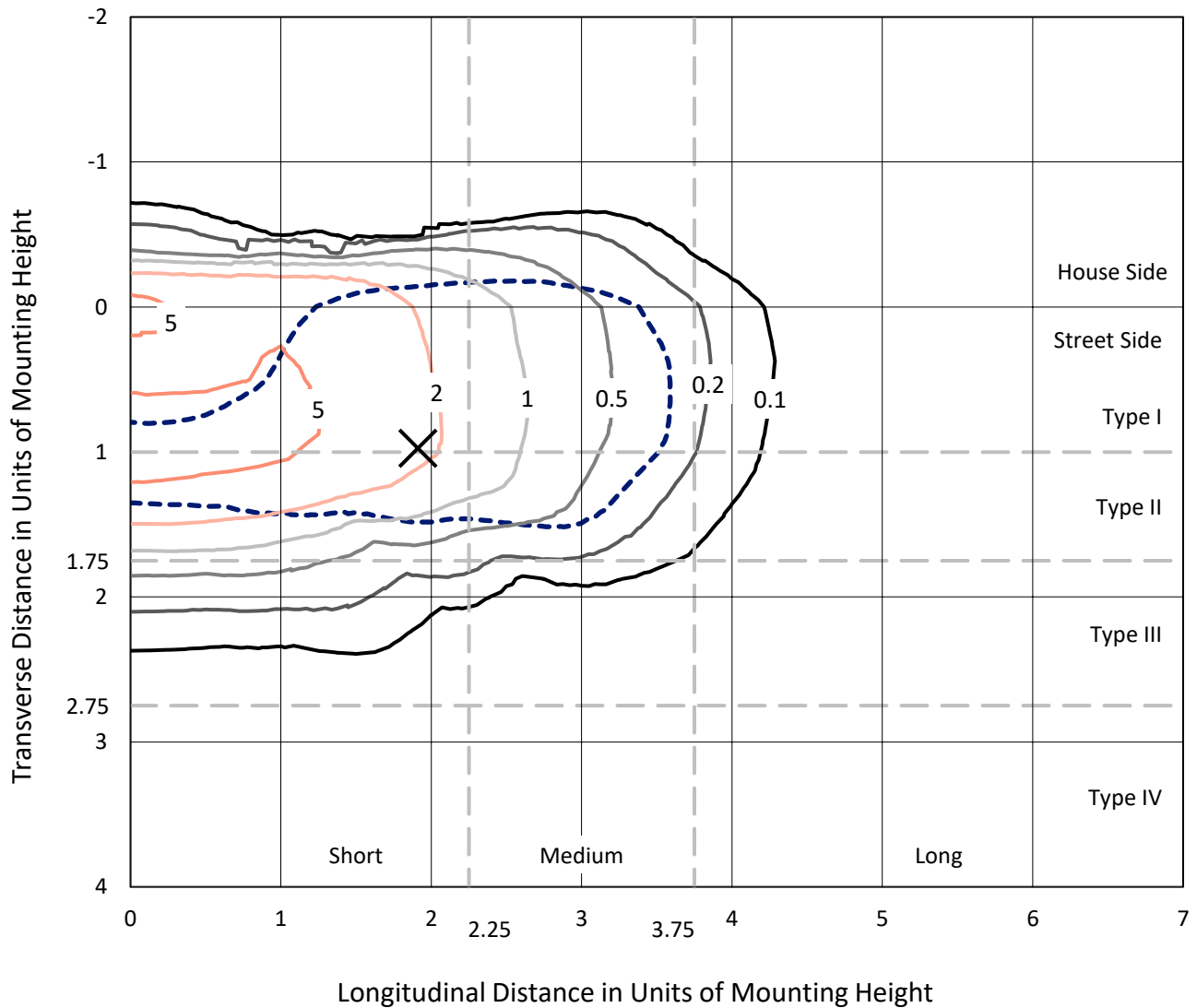
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400157
 CATALOG NUMBER: ARCH-L-PA3-240-750-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

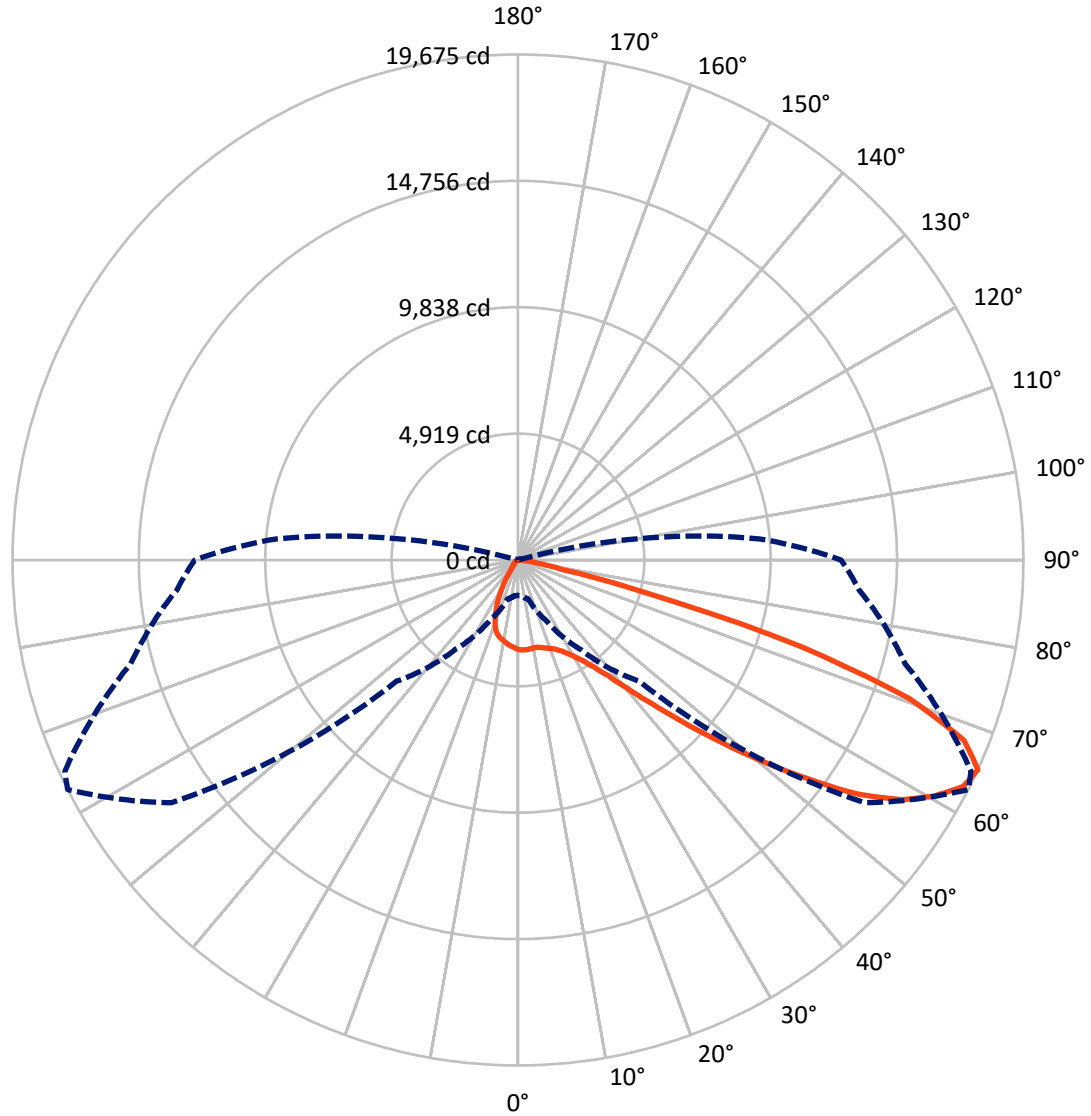
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P400157
CATALOG NUMBER: ARCH-L-PA3-240-750-U-T2U-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P400157
 CATALOG NUMBER: ARCH-L-PA3-240-750-U-T2U-HSS

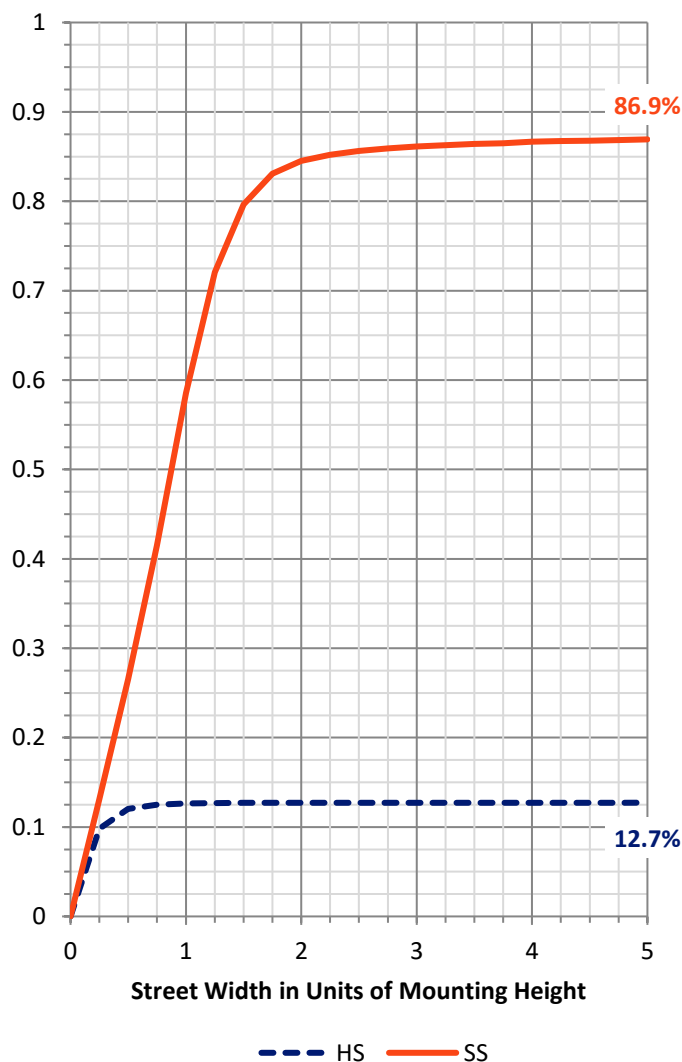
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2917.1	0.0	2917.1
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	19748.9	0.0	19748.9
	% Fixture	87.1	0.0	87.1
Total	Lumens	22666.0	0.0	22666.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.6	1.4
10°-20°	786.0	3.5
20°-30°	1165.0	5.1
30°-40°	2163.0	9.5
40°-50°	4582.3	20.2
50°-60°	6336.1	28.0
60°-70°	5072.3	22.4
70°-80°	2107.4	9.3
80°-90°	135.3	0.6
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°	22666.0	100.0
0°-180°	22666.0	100.0

Coefficient of Utilization



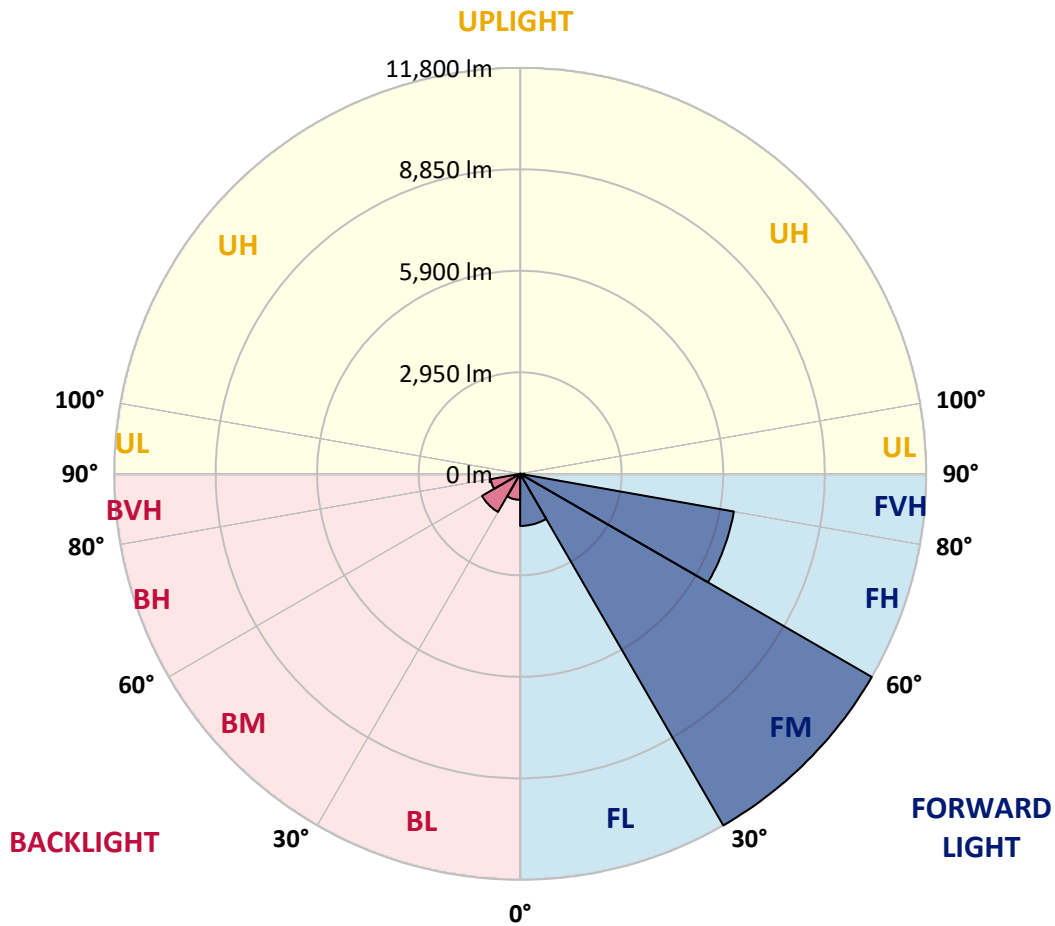
REPORT NUMBER: P400157
 CATALOG NUMBER: ARCH-L-PA3-240-750-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1513.6	6.7			
FM (30°-60°)	11800.0	52.1			
FH (60°-80°)	6306.2	27.8			G3/7500
FVH (80°-90°)	129.1	0.6			G2/225
BL (0°-30°)	756.0	3.3	B2/1000		
BM (30°-60°)	1281.4	5.7	B2/2500		
BH (60°-80°)	873.5	3.9	B2/1000		G2/1000
BVH (80°-90°)	6.2	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-G3

Type II Short





REPORT NUMBER: P400157

CATALOG NUMBER: ARCH-L-PA3-240-750-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7
2.5°	3551.6	3543.1	3534.5	3530.2	3530.2	3525.9	3508.8	3504.5	3496.0	3487.4	3478.9
5°	3517.4	3504.5	3500.3	3504.5	3508.8	3517.4	3508.8	3508.8	3500.3	3491.7	3474.6
7.5°	3431.8	3423.2	3427.5	3440.4	3444.6	3474.6	3478.9	3491.7	3491.7	3483.2	3470.3
10°	3329.1	3324.8	3324.8	3346.2	3367.6	3410.4	3440.4	3474.6	3478.9	3478.9	3457.5
12.5°	3252.1	3247.8	3260.6	3286.3	3329.1	3384.7	3436.1	3487.4	3496.0	3500.3	3466.0
15°	3205.0	3205.0	3222.1	3273.5	3333.4	3410.4	3470.3	3538.8	3547.3	3543.1	3496.0
17.5°	3162.2	3166.5	3200.7	3286.3	3354.8	3457.5	3530.2	3607.2	3611.5	3607.2	3530.2
20°	3145.1	3153.7	3205.0	3316.3	3393.3	3508.8	3603.0	3680.0	3684.3	3667.2	3564.5
22.5°	3192.2	3196.5	3260.6	3380.5	3453.2	3581.6	3701.4	3774.1	3778.4	3752.7	3615.8
25°	3354.8	3354.8	3410.4	3513.1	3577.3	3705.7	3834.0	3919.6	3919.6	3889.7	3731.3
27.5°	3735.6	3701.4	3688.5	3718.5	3739.9	3876.8	4013.8	4120.7	4116.5	4073.7	3881.1
30°	4471.6	4386.0	4249.1	4095.1	4018.0	4112.2	4240.5	4377.5	4373.2	4304.7	4065.1
32.5°	5708.3	5584.2	5259.0	4852.4	4523.0	4416.0	4535.8	4685.6	4689.8	4608.5	4360.4
35°	7441.3	7244.4	6662.5	6097.7	5344.5	4938.0	4972.3	5134.9	5186.2	5143.4	4856.7
37.5°	9110.1	8930.4	8374.1	7591.0	6568.4	5738.2	5592.7	5733.9	5793.8	5793.8	5490.0
40°	10791.8	10582.1	10090.0	9302.7	8224.3	6987.7	6465.7	6581.2	6645.4	6658.2	6260.3
42.5°	12139.7	12002.8	11626.2	11014.3	10004.4	9178.6	7723.7	7659.5	7719.4	7672.3	7154.6
45°	13072.5	12965.5	12704.5	12473.4	11981.4	11566.3	9405.4	8973.2	9011.7	8849.1	8160.2
47.5°	13265.1	13145.3	13089.6	13410.6	13761.4	13864.1	11472.1	10535.0	10496.5	10137.1	9204.2
50°	12426.4	12439.2	12644.6	13560.3	15023.8	15948.0	13868.4	12298.0	12156.8	11356.6	10175.6
52.5°	10616.3	10821.7	11339.5	12824.3	15408.9	17462.8	16264.7	14168.0	13949.7	12541.9	10903.0
55°	8305.6	8570.9	9422.5	11129.8	14604.4	18138.9	18284.4	16110.6	15614.3	13432.0	11467.9
57.5°	6174.7	6256.0	7248.7	8806.3	12700.2	17475.7	19319.9	17608.3	16970.7	14142.3	12028.4
60°	3846.9	3898.2	4946.6	6705.3	9619.3	15023.8	19319.9	18639.6	18031.9	14779.9	12541.9
62.5°	2392.0	2409.1	2802.8	4595.7	6538.4	11142.7	18519.8	19439.8	18951.9	15237.7	12982.7
65°	1377.9	1395.0	1579.0	2597.4	4253.4	6671.0	16474.4	19675.1	19456.9	15601.4	13325.0
67.5°	1005.6	1014.1	1086.9	1459.2	2781.4	3427.5	12375.0	18729.4	19003.3	15781.2	13316.4
70°	872.9	885.8	979.9	1138.2	2006.9	2105.3	6298.8	16174.8	16940.8	15524.4	12918.5
72.5°	671.8	688.9	830.1	1069.8	1472.0	1514.8	2280.7	11510.7	12670.3	13919.8	11827.3
75°	462.1	479.3	620.5	881.5	1215.3	1133.9	1253.8	5297.5	6683.9	9336.9	9003.1
77.5°	295.3	299.5	389.4	641.9	1048.4	804.5	860.1	1728.7	2426.2	4223.4	4249.1
80°	196.8	201.1	239.6	415.1	718.9	744.6	530.6	800.2	877.2	1232.4	855.8
82.5°	119.8	119.8	162.6	261.0	436.5	616.2	346.6	419.3	449.3	475.0	222.5
85°	47.1	47.1	98.4	171.2	273.9	286.7	218.2	243.9	256.7	278.1	102.7
87.5°	12.8	12.8	55.6	94.1	119.8	132.7	132.7	119.8	128.4	158.3	51.3
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: P400157

CATALOG NUMBER: ARCH-L-PA3-240-750-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7	3491.7
2.5°	3474.6	3461.8	3444.6	3427.5	3410.4	3397.6	3384.7	3384.7	3376.2	3363.3	3354.8
5°	3466.0	3444.6	3406.1	3376.2	3329.1	3294.9	3269.2	3247.8	3235.0	3205.0	3200.7
7.5°	3453.2	3427.5	3371.9	3312.0	3235.0	3175.1	3115.2	3072.4	3029.6	2995.3	2986.8
10°	3431.8	3401.8	3320.5	3235.0	3128.0	3016.7	2875.5	2712.9	2563.2	2477.6	2451.9
12.5°	3431.8	3393.3	3286.3	3170.8	3016.7	2742.9	2383.4	2024.0	1745.9	1621.8	1587.5
15°	3453.2	3401.8	3260.6	3102.3	2815.6	2259.3	1677.4	1202.4	898.6	804.5	783.1
17.5°	3474.6	3401.8	3222.1	3008.2	2447.6	1638.9	954.2	633.3	534.9	513.5	513.5
20°	3483.2	3393.3	3170.8	2832.7	1955.5	1018.4	569.1	475.0	436.5	423.6	423.6
22.5°	3517.4	3397.6	3132.3	2580.3	1420.6	599.1	449.3	398.0	359.4	346.6	346.6
25°	3603.0	3448.9	3140.8	2259.3	911.4	453.6	380.8	329.5	291.0	273.9	273.9
27.5°	3739.9	3564.5	3187.9	1887.1	573.4	389.4	320.9	265.3	235.3	218.2	218.2
30°	3893.9	3692.8	3209.3	1459.2	427.9	329.5	261.0	209.7	188.3	175.4	171.2
32.5°	4163.5	3915.3	3192.2	1001.3	350.9	278.1	209.7	166.9	149.8	145.5	145.5
35°	4595.7	4304.7	3157.9	629.0	291.0	222.5	166.9	136.9	124.1	119.8	115.5
37.5°	5181.9	4873.8	3055.2	415.1	239.6	175.4	136.9	115.5	102.7	98.4	98.4
40°	5896.5	5524.3	2858.4	316.7	205.4	141.2	115.5	98.4	89.9	85.6	85.6
42.5°	6713.8	6247.4	2546.0	273.9	171.2	119.8	98.4	81.3	77.0	72.7	72.7
45°	7608.2	7004.8	2113.9	243.9	145.5	98.4	81.3	72.7	64.2	64.2	59.9
47.5°	8558.1	7766.5	1626.0	214.0	124.1	85.6	72.7	59.9	55.6	51.3	51.3
50°	9473.8	8446.9	1142.5	184.0	102.7	72.7	59.9	51.3	47.1	42.8	42.8
52.5°	10120.0	8857.6	808.7	158.3	85.6	64.2	47.1	38.5	34.2	34.2	34.2
55°	10637.7	9114.4	564.8	132.7	72.7	55.6	38.5	30.0	30.0	25.7	25.7
57.5°	11125.5	9281.3	415.1	111.3	59.9	42.8	30.0	21.4	21.4	17.1	17.1
60°	11630.5	9371.1	316.7	89.9	51.3	34.2	21.4	17.1	12.8	12.8	12.8
62.5°	12139.7	9426.8	243.9	72.7	42.8	25.7	17.1	12.8	8.6	4.3	4.3
65°	12584.7	9443.9	188.3	55.6	34.2	17.1	12.8	4.3	0.0	0.0	0.0
67.5°	12717.4	9247.0	145.5	42.8	25.7	12.8	8.6	0.0	0.0	0.0	0.0
70°	12357.9	8725.0	111.3	34.2	21.4	8.6	4.3	0.0	0.0	0.0	0.0
72.5°	10967.2	7317.2	85.6	21.4	17.1	8.6	4.3	0.0	0.0	0.0	0.0
75°	7847.8	3902.5	59.9	17.1	12.8	4.3	0.0	0.0	0.0	0.0	0.0
77.5°	3611.5	1510.5	42.8	12.8	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	706.0	376.6	17.1	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	162.6	64.2	8.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	55.6	21.4	4.3	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.4	8.6	4.3	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)