

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: P400465

Luminaire Tested: **ARCH-L-PA3-280-827-U-T3-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400465
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-PA3-280-827-U-T3-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 1180mA 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: 19227 lumens
Efficiency: N/A
Efficacy: 68.9 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

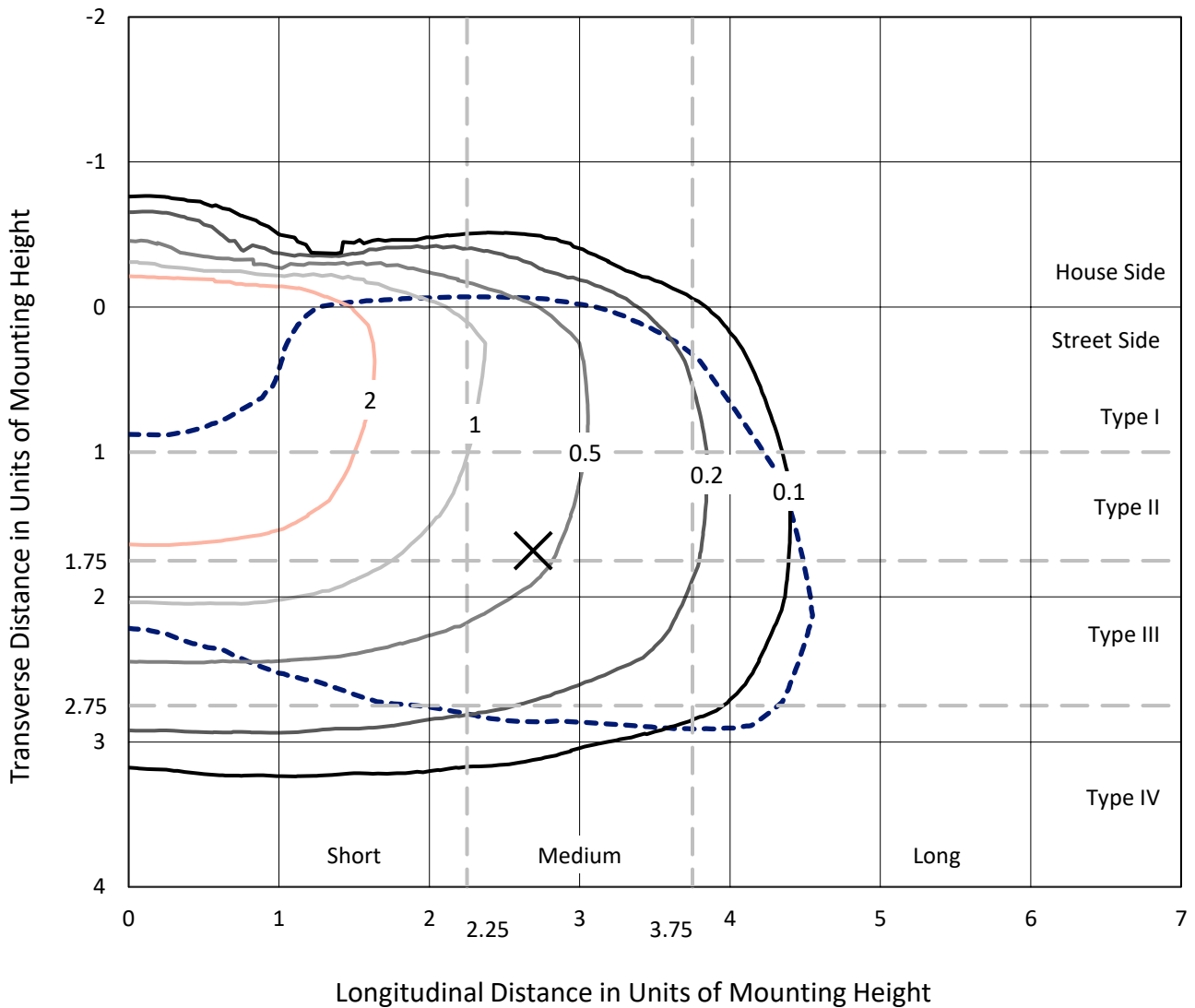
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P400465
 CATALOG NUMBER: ARCH-L-PA3-280-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

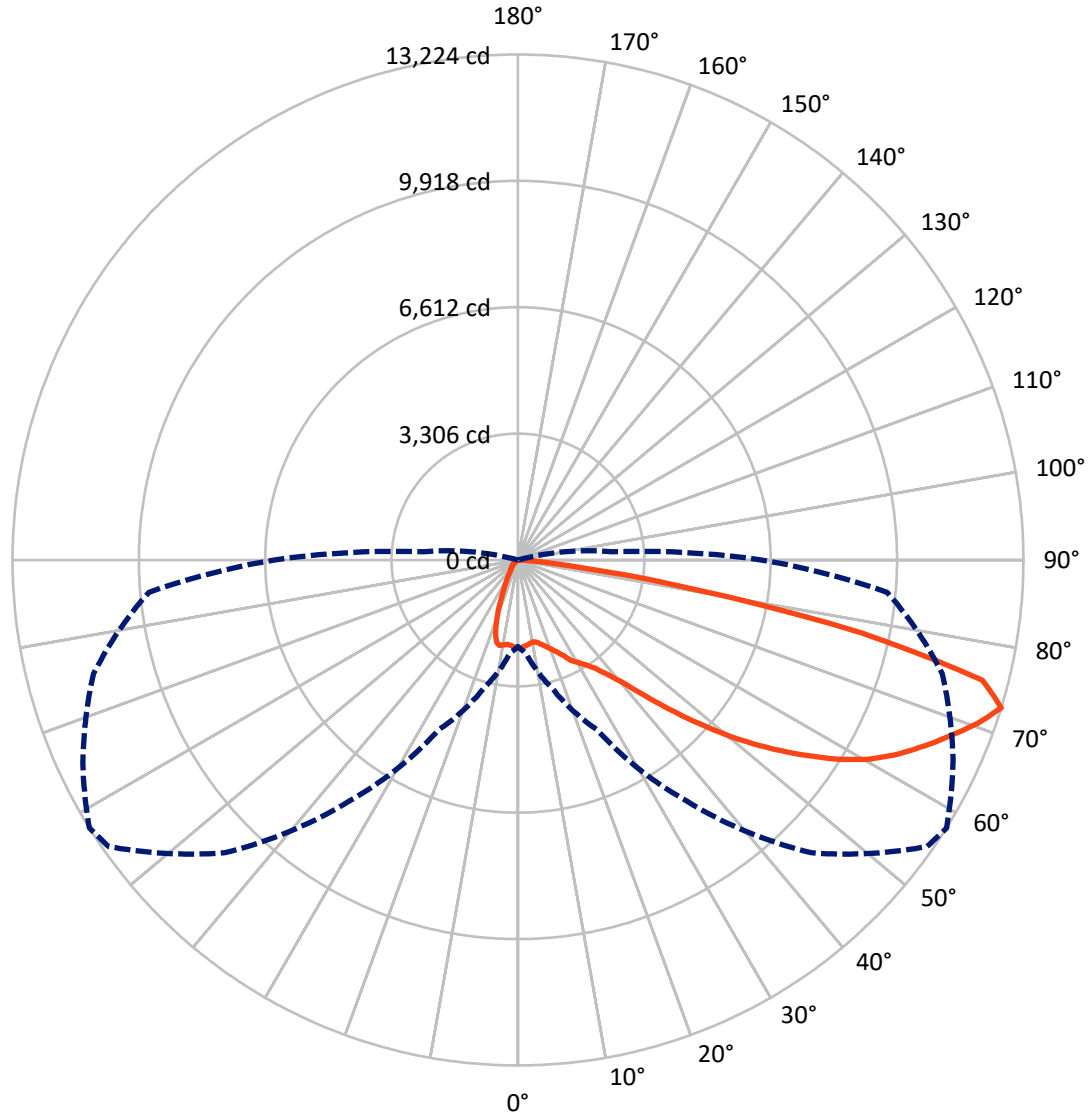
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

REPORT NUMBER: P400465
CATALOG NUMBER: ARCH-L-PA3-280-827-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P400465
 CATALOG NUMBER: ARCH-L-PA3-280-827-U-T3-HSS

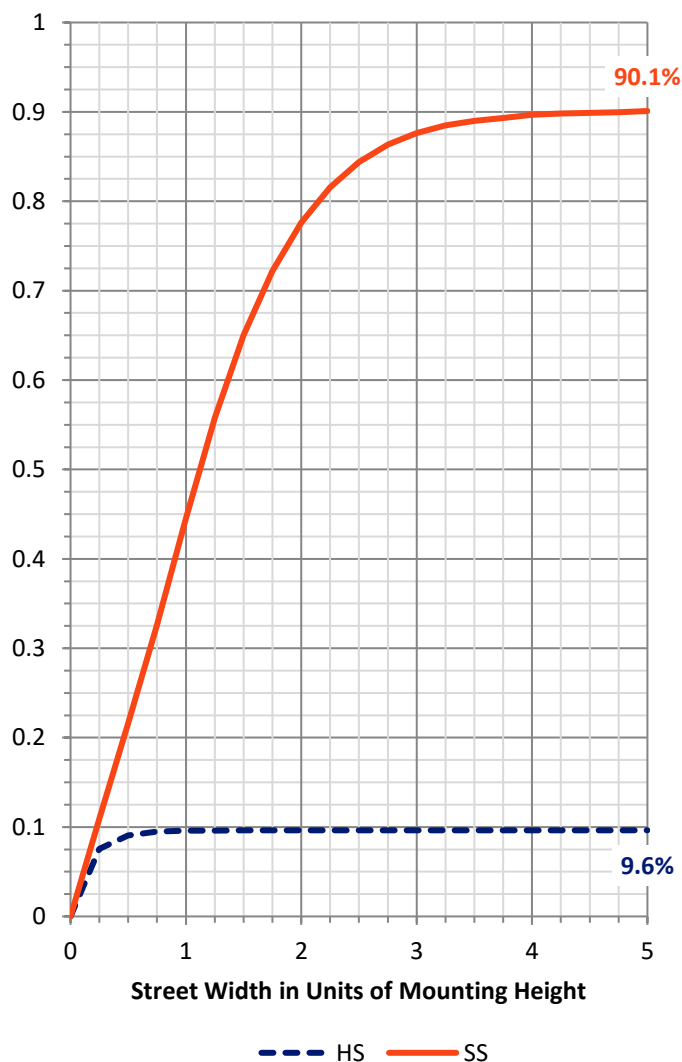
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1869.7	0.0	1869.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	17357.3	0.0	17357.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	19227.0	0.0	19227.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.1
10°-20°	551.5	2.9
20°-30°	866.3	4.5
30°-40°	1494.1	7.8
40°-50°	2842.6	14.8
50°-60°	4501.8	23.4
60°-70°	5253.0	27.3
70°-80°	3290.0	17.1
80°-90°	216.0	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°	19227.0	100.0
0°-180°	19227.0	100.0

Coefficient of Utilization



REPORT NUMBER: P400465

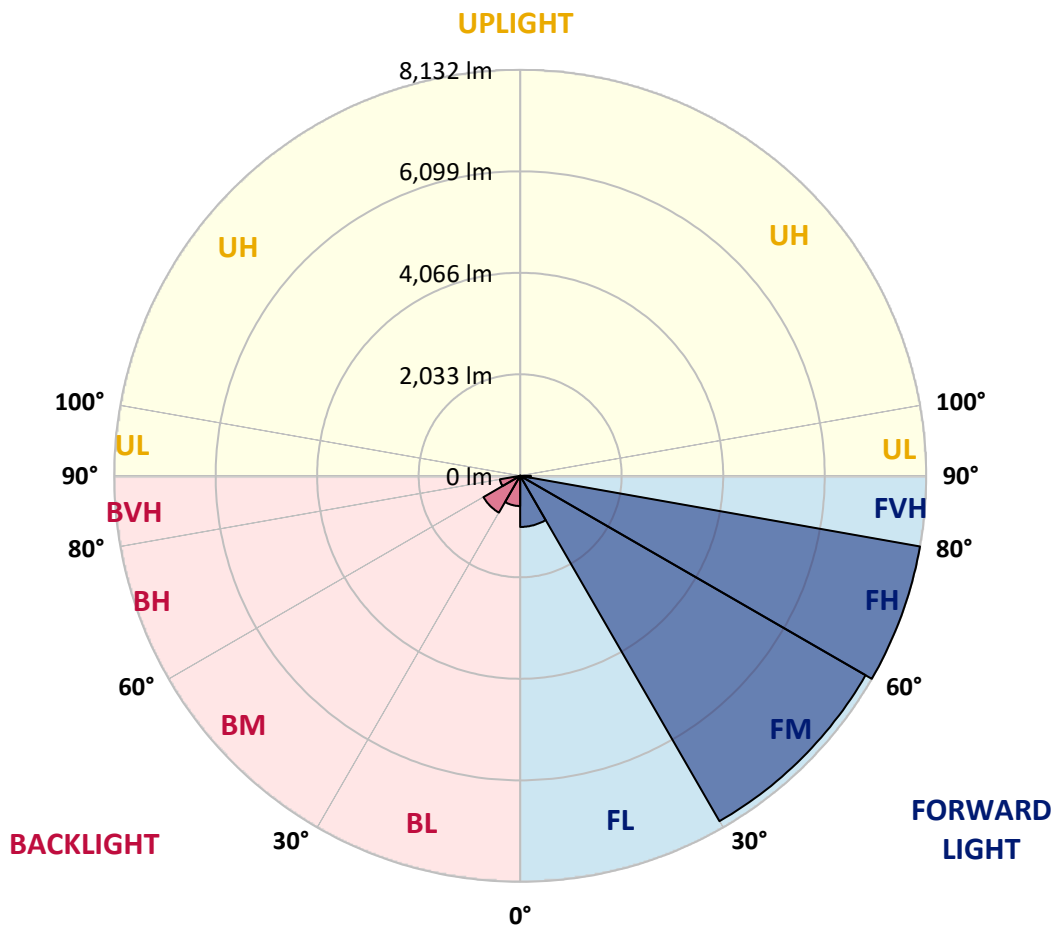
CATALOG NUMBER: ARCH-L-PA3-280-827-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1024.1	5.3			
FM (30°-60°)	7987.7	41.5			
FH (60°-80°)	8131.6	42.3			G4/12000
FVH (80°-90°)	213.9	1.1			G2/225
BL (0°-30°)	605.5	3.1	B2/1000		
BM (30°-60°)	850.7	4.4	B1/1000		
BH (60°-80°)	411.4	2.1	B1/500		G1/500
BVH (80°-90°)	2.1	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: P400465

CATALOG NUMBER: ARCH-L-PA3-280-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1
2.5°	2296.8	2286.5	2283.1	2279.6	2283.1	2286.5	2276.2	2286.5	2279.6	2283.1	2289.9
5°	2214.3	2204.0	2200.5	2204.0	2214.3	2231.5	2238.4	2248.7	2248.7	2259.0	2262.4
7.5°	2121.5	2114.6	2111.1	2118.0	2138.6	2176.5	2197.1	2210.8	2224.6	2245.2	2265.9
10°	2069.9	2066.4	2063.0	2073.3	2093.9	2128.3	2155.8	2176.5	2228.0	2286.5	2324.3
12.5°	2035.5	2035.5	2042.4	2063.0	2090.5	2118.0	2183.3	2210.8	2289.9	2379.3	2430.9
15°	2008.0	2008.0	2018.3	2056.1	2093.9	2159.3	2255.5	2286.5	2379.3	2489.4	2558.1
17.5°	1987.4	1994.2	2001.1	2038.9	2111.1	2221.2	2334.6	2379.3	2492.8	2613.1	2688.8
20°	1990.8	1997.7	2001.1	2038.9	2142.1	2293.4	2437.8	2489.4	2620.0	2747.2	2822.9
22.5°	2011.4	2021.7	2025.2	2076.8	2197.1	2369.0	2554.7	2613.1	2754.1	2888.2	2946.7
25°	2097.4	2104.3	2083.6	2128.3	2276.2	2485.9	2706.0	2767.9	2908.8	3032.6	3080.7
27.5°	2389.6	2396.5	2283.1	2231.5	2338.1	2582.2	2891.6	2977.6	3153.0	3235.5	3242.3
30°	3022.3	3029.2	2805.7	2561.6	2485.9	2664.7	2994.8	3115.1	3342.1	3434.9	3393.6
32.5°	3837.2	3830.3	3524.3	3163.3	2836.6	2809.1	3142.6	3269.9	3517.4	3606.8	3575.9
35°	4655.5	4665.8	4404.5	3861.3	3393.6	3080.7	3331.7	3479.6	3778.7	3905.9	3850.9
37.5°	5216.0	5284.7	5171.3	4583.3	4077.9	3582.7	3637.8	3795.9	4170.7	4342.6	4225.7
40°	6006.8	5989.6	5714.5	5281.3	4834.3	4325.4	4132.9	4208.5	4638.3	4868.7	4686.5
42.5°	7069.2	7034.8	6567.2	6144.3	5645.7	5229.7	4837.7	4824.0	5174.7	5442.9	5178.1
45°	8032.0	7980.4	7660.6	7251.4	6704.8	6226.8	5697.3	5577.0	5821.1	6048.0	5738.6
47.5°	8798.7	8712.7	8485.8	8269.2	8135.1	7392.4	6598.2	6415.9	6539.7	6708.2	6271.5
50°	9706.4	9469.2	9139.1	9008.4	9286.9	8712.7	7464.6	7289.3	7282.4	7378.7	6821.7
52.5°	10119.0	9689.2	9503.6	9613.6	10105.3	9940.2	8399.9	8148.9	8049.1	8059.5	7334.0
55°	9620.5	9572.3	9672.0	10015.9	10658.8	10562.6	9297.3	8987.8	8840.0	8654.3	7825.7
57.5°	9053.1	9201.0	9596.4	10253.1	11360.3	11212.4	10180.9	9830.2	9558.6	9132.2	8372.3
60°	8530.5	8681.8	9335.1	10308.1	11745.4	11838.2	10916.7	10583.2	10180.9	9620.5	8974.1
62.5°	7736.3	7853.2	8771.2	10229.0	11576.9	12202.7	11429.0	11178.0	10803.2	10084.6	9665.2
65°	6842.3	6917.9	7825.7	9596.4	11246.8	12161.4	11851.9	11711.0	11346.5	10569.4	10349.4
67.5°	5862.4	5951.8	6708.2	8458.3	10600.4	11968.8	12250.8	12237.0	11821.0	11105.8	10844.5
70°	4734.6	4741.5	5367.2	7014.2	9472.6	11583.8	12745.9	12776.9	12274.9	11508.1	10865.1
72.5°	2265.9	2451.5	3479.6	4896.2	7698.4	10827.3	13069.1	13223.8	12560.2	11494.4	9692.7
75°	519.2	536.4	1014.3	2327.8	4514.5	8310.5	12261.1	12549.9	11865.7	9940.2	6828.5
77.5°	189.1	199.4	285.4	680.8	1736.4	4294.5	8774.6	9197.5	8771.2	6426.2	3228.6
80°	127.2	123.8	147.8	302.6	797.7	1217.2	4487.0	4738.0	4325.4	2193.7	773.6
82.5°	65.3	68.8	103.2	168.5	536.4	422.9	1499.1	1629.8	1341.0	440.1	144.4
85°	30.9	30.9	58.5	106.6	226.9	147.8	333.5	402.3	361.0	192.5	48.1
87.5°	30.9	30.9	55.0	68.8	116.9	61.9	82.5	103.2	96.3	103.2	17.2
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: P400465
 CATALOG NUMBER: ARCH-L-PA3-280-827-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1	2307.1
2.5°	2289.9	2286.5	2283.1	2289.9	2286.5	2293.4	2293.4	2300.2	2300.2	2293.4	2289.9
5°	2259.0	2252.1	2245.2	2245.2	2241.8	2248.7	2269.3	2286.5	2289.9	2279.6	2276.2
7.5°	2262.4	2262.4	2255.5	2241.8	2217.7	2217.7	2217.7	2238.4	2248.7	2241.8	2238.4
10°	2324.3	2327.8	2310.6	2279.6	2238.4	2200.5	2128.3	2021.7	1922.0	1894.5	1884.2
12.5°	2430.9	2434.3	2400.0	2344.9	2259.0	2035.5	1760.4	1506.0	1310.0	1255.0	1244.7
15°	2558.1	2561.6	2499.7	2410.3	2149.0	1629.8	1220.6	931.8	759.9	718.6	715.2
17.5°	2688.8	2681.9	2589.1	2417.1	1822.3	1155.3	742.7	594.8	550.1	539.8	543.3
20°	2816.0	2795.4	2668.1	2289.9	1402.8	756.4	543.3	508.9	498.6	491.7	491.7
22.5°	2932.9	2891.6	2733.5	2038.9	983.4	543.3	484.8	477.9	464.2	453.9	450.4
25°	3049.8	2991.4	2774.7	1712.3	660.2	474.5	457.3	443.5	426.4	412.6	409.2
27.5°	3190.8	3108.3	2754.1	1299.7	495.1	440.1	426.4	405.7	381.7	361.0	354.1
30°	3324.9	3232.0	2637.2	897.4	422.9	405.7	385.1	354.1	323.2	299.1	292.3
32.5°	3493.3	3386.8	2427.5	588.0	367.9	354.1	333.5	295.7	254.4	226.9	220.1
35°	3734.0	3613.7	2159.3	412.6	323.2	299.1	271.6	230.4	185.7	165.0	161.6
37.5°	4071.0	3909.4	1822.3	333.5	285.4	251.0	209.7	168.5	137.5	120.3	116.9
40°	4483.6	4236.0	1447.5	295.7	254.4	209.7	158.2	120.3	99.7	86.0	86.0
42.5°	4930.6	4542.0	1065.9	271.6	223.5	171.9	116.9	86.0	72.2	65.3	61.9
45°	5391.3	4813.7	718.6	251.0	196.0	130.7	82.5	58.5	48.1	48.1	44.7
47.5°	5869.2	4995.9	464.2	226.9	165.0	96.3	55.0	41.3	34.4	34.4	34.4
50°	6343.7	5092.2	330.1	206.3	134.1	65.3	41.3	30.9	27.5	27.5	27.5
52.5°	6687.6	5030.3	264.8	178.8	103.2	48.1	30.9	24.1	20.6	20.6	20.6
55°	6986.7	4923.7	230.4	154.7	75.6	34.4	24.1	20.6	17.2	17.2	17.2
57.5°	7292.7	4786.2	206.3	130.7	55.0	24.1	17.2	13.8	13.8	13.8	13.8
60°	7571.2	4552.4	178.8	103.2	37.8	17.2	13.8	10.3	10.3	10.3	10.3
62.5°	7842.8	4352.9	154.7	79.1	27.5	13.8	6.9	6.9	3.4	3.4	3.4
65°	7997.6	4084.7	123.8	51.6	17.2	10.3	3.4	3.4	0.0	0.0	0.0
67.5°	7949.4	3765.0	86.0	30.9	10.3	6.9	3.4	0.0	0.0	0.0	0.0
70°	7615.9	3335.2	51.6	17.2	10.3	6.9	3.4	0.0	0.0	0.0	0.0
72.5°	6378.1	2468.7	30.9	13.8	6.9	3.4	0.0	0.0	0.0	0.0	0.0
75°	4260.1	1134.7	17.2	10.3	3.4	3.4	0.0	0.0	0.0	0.0	0.0
77.5°	1949.5	340.4	10.3	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	392.0	89.4	6.9	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.5	17.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.2	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	3.4	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)