

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: P397925

Luminaire Tested: **ARCH-S-PA1-60-750-U-T2U-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397925
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-S-PA1-60-750-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 800mA LIGHT ENGINE 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: 6163 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

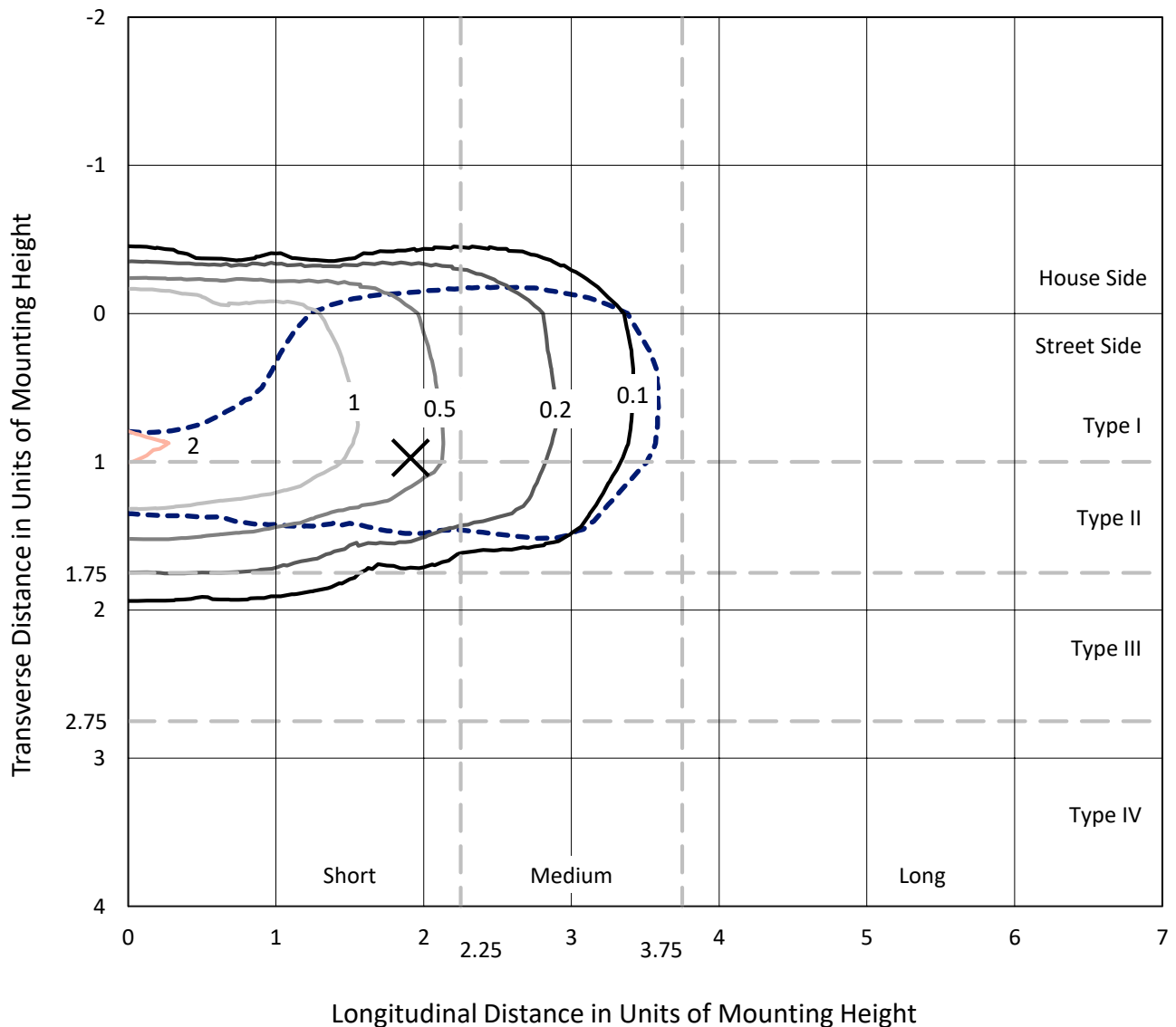
Input Watts (W): 64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

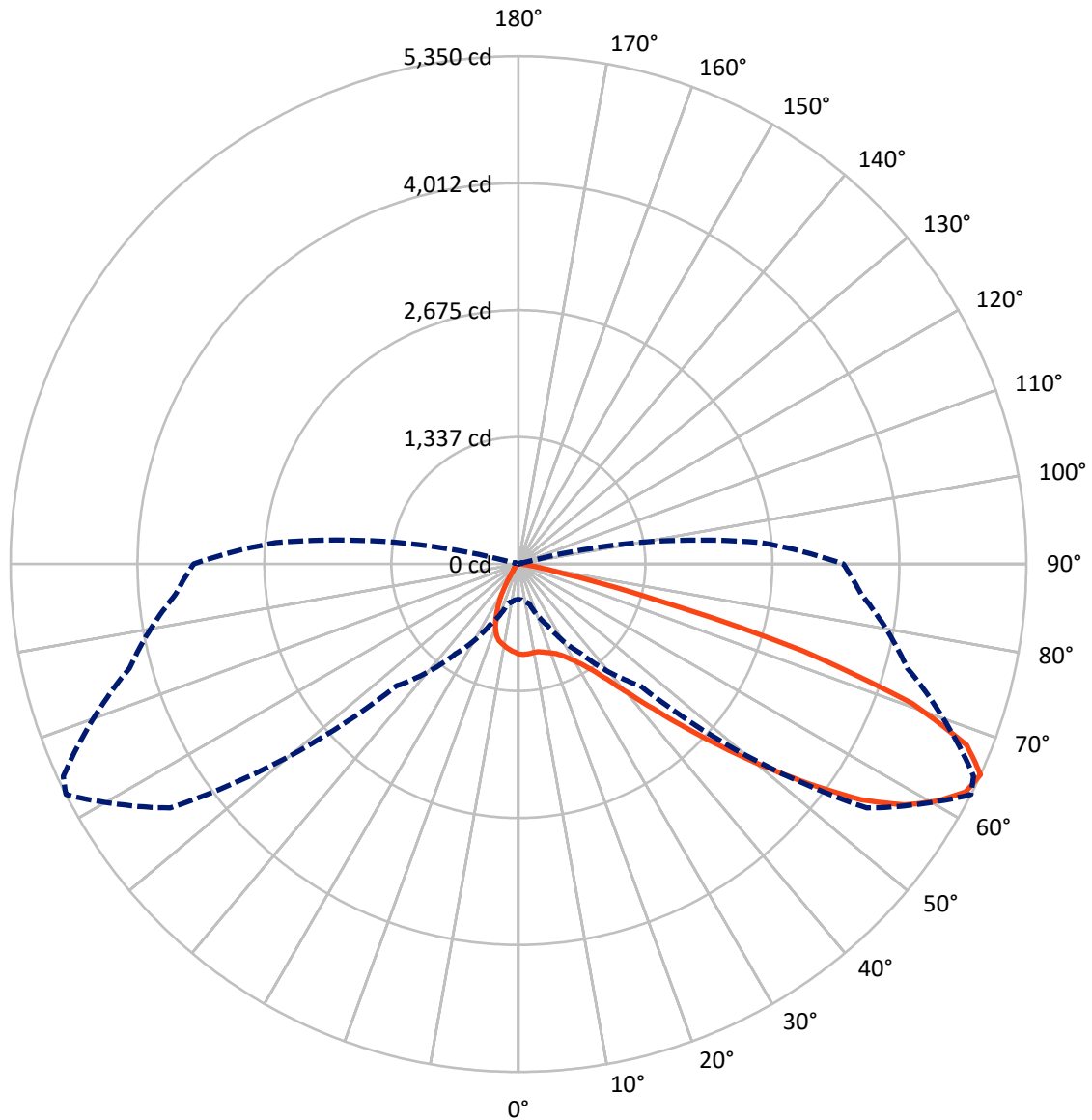
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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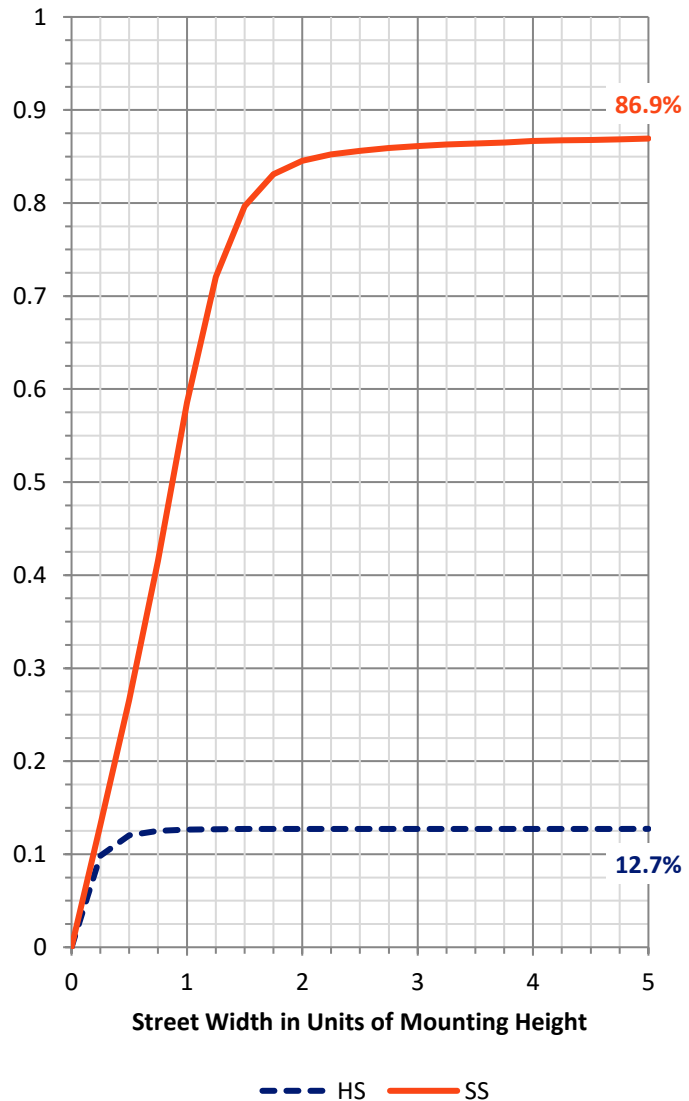
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	793.2	0.0	793.2
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5369.8	0.0	5369.8
	% Fixture	87.1	0.0	87.1
Total	Lumens	6163.0	0.0	6163.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.4
10°-20°	213.7	3.5
20°-30°	316.8	5.1
30°-40°	588.1	9.5
40°-50°	1245.9	20.2
50°-60°	1722.8	28.0
60°-70°	1379.2	22.4
70°-80°	573.0	9.3
80°-90°	36.8	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°	6163.0	100.0
0°-180°	6163.0	100.0



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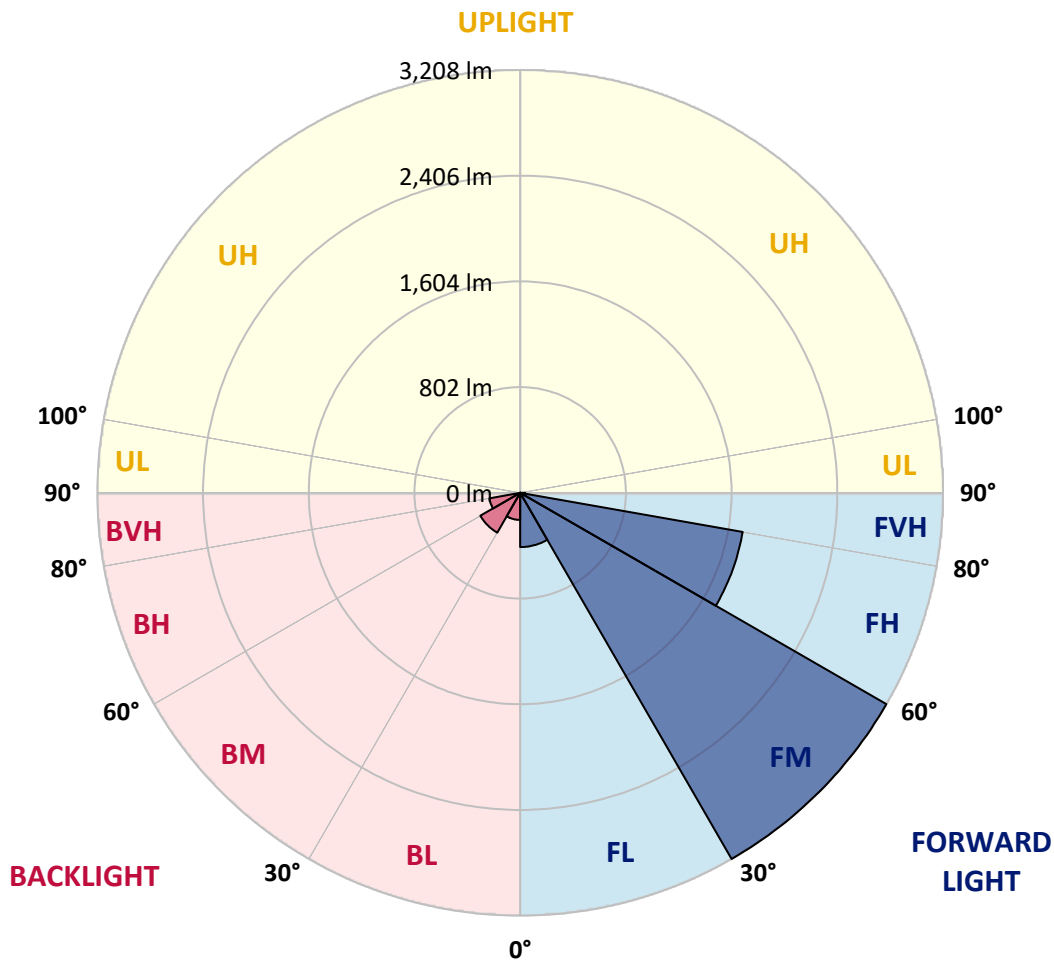
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	411.5	6.7			
FM	(30°-60°)	3208.5	52.1			
FH	(60°-80°)	1714.7	27.8			G1/1800
FVH	(80°-90°)	35.1	0.6			G1/100
BL	(0°-30°)	205.6	3.3	B1/500		
BM	(30°-60°)	348.4	5.7	B1/1000		
BH	(60°-80°)	237.5	3.9	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	965.7	963.4	961.0	959.9	959.9	958.7	954.1	952.9	950.6	948.2	945.9
5°	956.4	952.9	951.7	952.9	954.1	956.4	954.1	954.1	951.7	949.4	944.8
7.5°	933.1	930.8	932.0	935.5	936.6	944.8	945.9	949.4	949.4	947.1	943.6
10°	905.2	904.0	904.0	909.9	915.7	927.3	935.5	944.8	945.9	945.9	940.1
12.5°	884.3	883.1	886.6	893.6	905.2	920.3	934.3	948.2	950.6	951.7	942.4
15°	871.5	871.5	876.1	890.1	906.4	927.3	943.6	962.2	964.5	963.4	950.6
17.5°	859.8	861.0	870.3	893.6	912.2	940.1	959.9	980.8	982.0	980.8	959.9
20°	855.2	857.5	871.5	901.7	922.7	954.1	979.7	1000.6	1001.8	997.1	969.2
22.5°	868.0	869.1	886.6	919.2	938.9	973.8	1006.4	1026.2	1027.4	1020.4	983.2
25°	912.2	912.2	927.3	955.2	972.7	1007.6	1042.5	1065.8	1065.8	1057.6	1014.6
27.5°	1015.7	1006.4	1002.9	1011.1	1016.9	1054.1	1091.4	1120.4	1119.3	1107.6	1055.3
30°	1215.9	1192.6	1155.4	1113.5	1092.5	1118.1	1153.0	1190.3	1189.1	1170.5	1105.3
32.5°	1552.1	1518.4	1429.9	1319.4	1229.8	1200.7	1233.3	1274.0	1275.2	1253.1	1185.6
35°	2023.3	1969.8	1811.6	1658.0	1453.2	1342.7	1352.0	1396.2	1410.2	1398.5	1320.6
37.5°	2477.1	2428.2	2277.0	2064.0	1786.0	1560.2	1520.7	1559.1	1575.4	1575.4	1492.8
40°	2934.3	2877.3	2743.5	2529.4	2236.2	1900.0	1758.0	1789.5	1806.9	1810.4	1702.2
42.5°	3300.8	3263.6	3161.2	2994.8	2720.3	2495.7	2100.1	2082.7	2098.9	2086.1	1945.4
45°	3554.5	3525.4	3454.4	3391.6	3257.8	3144.9	2557.4	2439.9	2450.3	2406.1	2218.8
47.5°	3606.8	3574.3	3559.1	3646.4	3741.8	3769.7	3119.3	2864.5	2854.1	2756.3	2502.7
50°	3378.8	3382.3	3438.1	3687.1	4085.0	4336.4	3770.9	3343.9	3305.5	3087.9	2766.8
52.5°	2886.6	2942.5	3083.3	3487.0	4189.8	4748.2	4422.5	3852.3	3793.0	3410.2	2964.6
55°	2258.3	2330.5	2562.0	3026.3	3971.0	4932.1	4971.6	4380.6	4245.6	3652.2	3118.2
57.5°	1678.9	1701.0	1971.0	2394.5	3453.3	4751.7	5253.2	4787.8	4614.4	3845.4	3270.6
60°	1046.0	1059.9	1345.0	1823.2	2615.5	4085.0	5253.2	5068.2	4903.0	4018.7	3410.2
62.5°	650.4	655.0	762.1	1249.6	1777.8	3029.7	5035.6	5285.8	5153.1	4143.2	3530.0
65°	374.6	379.3	429.3	706.2	1156.5	1813.9	4479.5	5349.8	5290.4	4242.1	3623.1
67.5°	273.4	275.7	295.5	396.8	756.3	932.0	3364.8	5092.6	5167.1	4291.0	3620.8
70°	237.4	240.8	266.4	309.5	545.7	572.4	1712.7	4398.0	4606.3	4221.2	3512.6
72.5°	182.7	187.3	225.7	290.9	400.2	411.9	620.1	3129.8	3445.1	3784.9	3215.9
75°	125.7	130.3	168.7	239.7	330.4	308.3	340.9	1440.4	1817.4	2538.8	2448.0
77.5°	80.3	81.4	105.9	174.5	285.1	218.7	233.9	470.1	659.7	1148.4	1155.4
80°	53.5	54.7	65.2	112.9	195.5	202.4	144.3	217.6	238.5	335.1	232.7
82.5°	32.6	32.6	44.2	71.0	118.7	167.5	94.2	114.0	122.2	129.1	60.5
85°	12.8	12.8	26.8	46.5	74.5	78.0	59.3	66.3	69.8	75.6	27.9
87.5°	3.5	3.5	15.1	25.6	32.6	36.1	36.1	32.6	34.9	43.0	14.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4	949.4
2.5°	944.8	941.3	936.6	932.0	927.3	923.8	920.3	920.3	918.0	914.5	912.2
5°	942.4	936.6	926.1	918.0	905.2	895.9	888.9	883.1	879.6	871.5	870.3
7.5°	938.9	932.0	916.8	900.5	879.6	863.3	847.0	835.4	823.8	814.4	812.1
10°	933.1	925.0	902.9	879.6	850.5	820.3	781.9	737.7	696.9	673.7	666.7
12.5°	933.1	922.7	893.6	862.2	820.3	745.8	648.1	550.3	474.7	441.0	431.7
15°	938.9	925.0	886.6	843.5	765.6	614.3	456.1	326.9	244.3	218.7	212.9
17.5°	944.8	925.0	876.1	817.9	665.5	445.6	259.5	172.2	145.4	139.6	139.6
20°	947.1	922.7	862.2	770.2	531.7	276.9	154.7	129.1	118.7	115.2	115.2
22.5°	956.4	923.8	851.7	701.6	386.3	162.9	122.2	108.2	97.7	94.2	94.2
25°	979.7	937.8	854.0	614.3	247.8	123.3	103.6	89.6	79.1	74.5	74.5
27.5°	1016.9	969.2	866.8	513.1	155.9	105.9	87.3	72.1	64.0	59.3	59.3
30°	1058.8	1004.1	872.6	396.8	116.3	89.6	71.0	57.0	51.2	47.7	46.5
32.5°	1132.1	1064.6	868.0	272.3	95.4	75.6	57.0	45.4	40.7	39.6	39.6
35°	1249.6	1170.5	858.7	171.0	79.1	60.5	45.4	37.2	33.7	32.6	31.4
37.5°	1409.0	1325.2	830.7	112.9	65.2	47.7	37.2	31.4	27.9	26.8	26.8
40°	1603.3	1502.1	777.2	86.1	55.8	38.4	31.4	26.8	24.4	23.3	23.3
42.5°	1825.5	1698.7	692.3	74.5	46.5	32.6	26.8	22.1	20.9	19.8	19.8
45°	2068.7	1904.6	574.8	66.3	39.6	26.8	22.1	19.8	17.5	17.5	16.3
47.5°	2327.0	2111.7	442.1	58.2	33.7	23.3	19.8	16.3	15.1	14.0	14.0
50°	2576.0	2296.7	310.7	50.0	27.9	19.8	16.3	14.0	12.8	11.6	11.6
52.5°	2751.7	2408.4	219.9	43.0	23.3	17.5	12.8	10.5	9.3	9.3	9.3
55°	2892.5	2478.2	153.6	36.1	19.8	15.1	10.5	8.1	8.1	7.0	7.0
57.5°	3025.1	2523.6	112.9	30.3	16.3	11.6	8.1	5.8	5.8	4.7	4.7
60°	3162.4	2548.1	86.1	24.4	14.0	9.3	5.8	4.7	3.5	3.5	3.5
62.5°	3300.8	2563.2	66.3	19.8	11.6	7.0	4.7	3.5	2.3	1.2	1.2
65°	3421.8	2567.8	51.2	15.1	9.3	4.7	3.5	1.2	0.0	0.0	0.0
67.5°	3457.9	2514.3	39.6	11.6	7.0	3.5	2.3	0.0	0.0	0.0	0.0
70°	3360.2	2372.4	30.3	9.3	5.8	2.3	1.2	0.0	0.0	0.0	0.0
72.5°	2982.0	1989.6	23.3	5.8	4.7	2.3	1.2	0.0	0.0	0.0	0.0
75°	2133.9	1061.1	16.3	4.7	3.5	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	982.0	410.7	11.6	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0
80°	192.0	102.4	4.7	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.2	17.5	2.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.1	5.8	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	2.3	1.2	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)