

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: P399414

Luminaire Tested: **ARCH-L-PA3-140-727-U-T4W-HSS**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-140-727-U-T4W-HSS
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13552 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G3

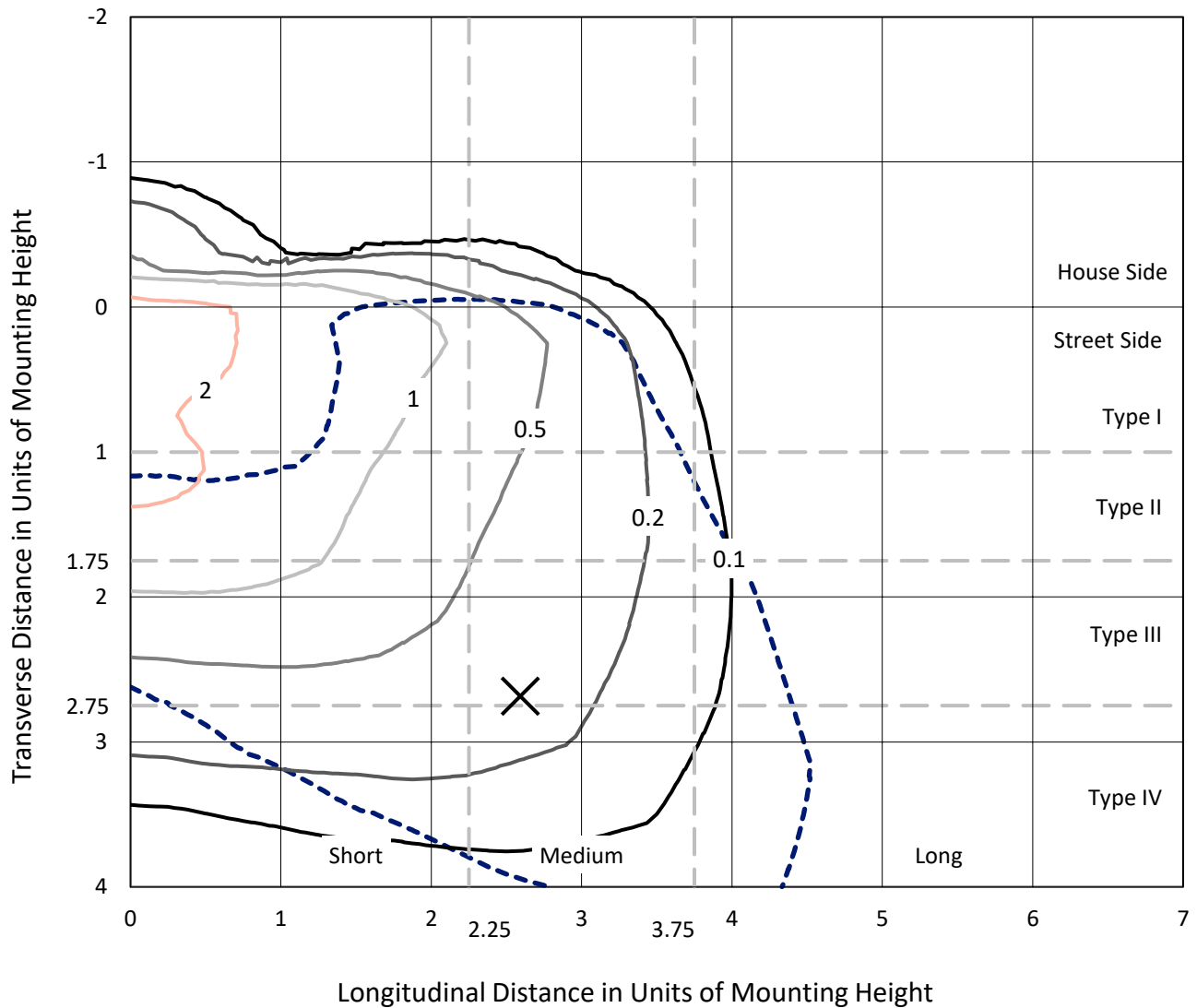
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

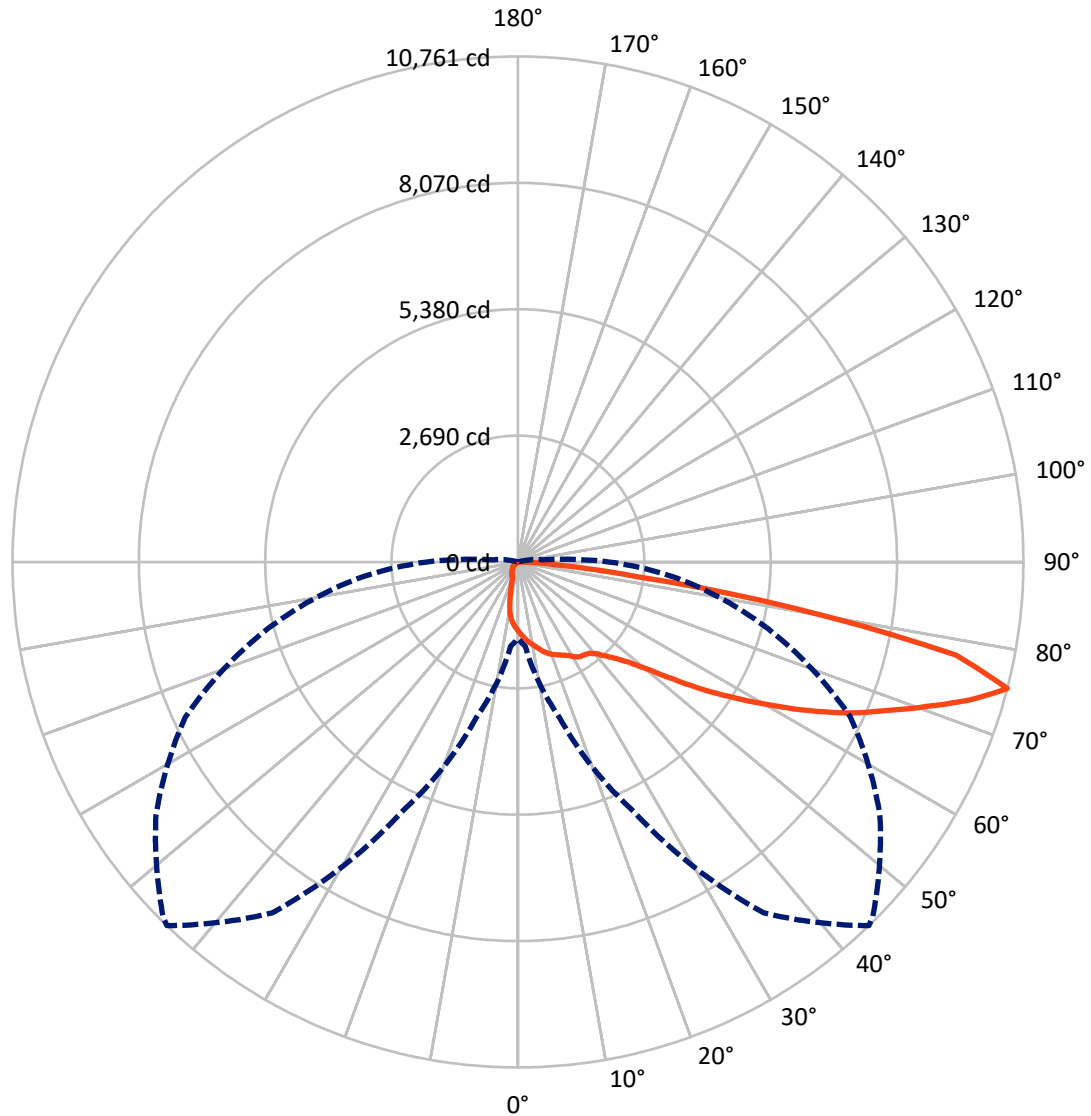
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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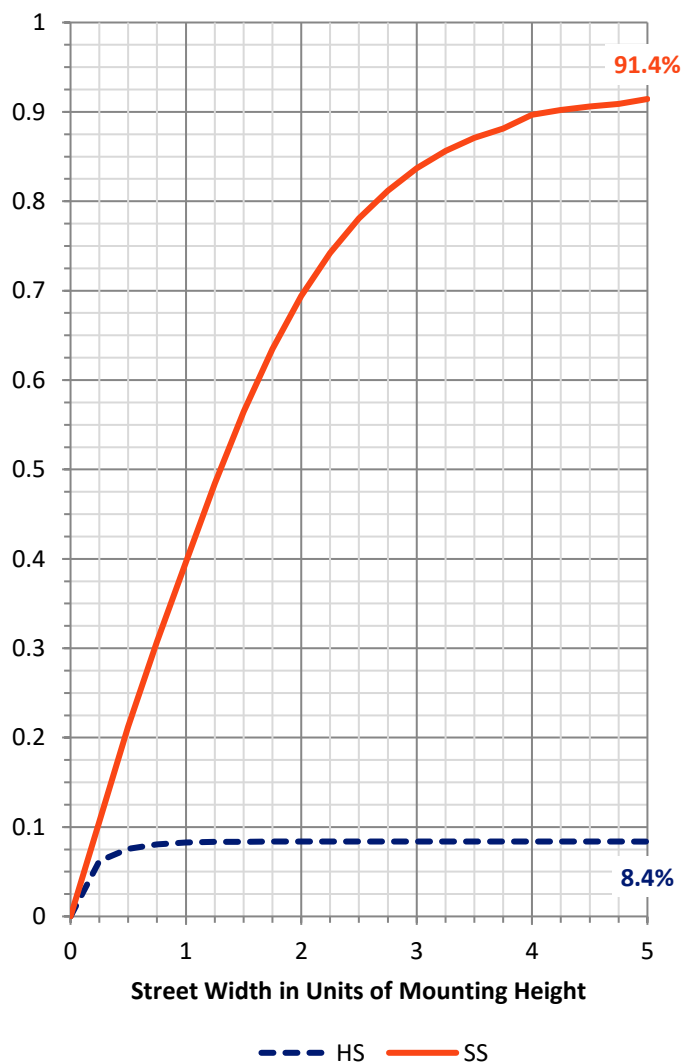
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1142.9	0.0	1142.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	12409.1	0.0	12409.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	13552.0	0.0	13552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.0
10°-20°	389.8	2.9
20°-30°	643.3	4.7
30°-40°	933.7	6.9
40°-50°	1517.7	11.2
50°-60°	2675.6	19.7
60°-70°	3845.4	28.4
70°-80°	3079.3	22.7
80°-90°	328.1	2.4
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°	13552.0	100.0
0°-180°	13552.0	100.0

Coefficient of Utilization



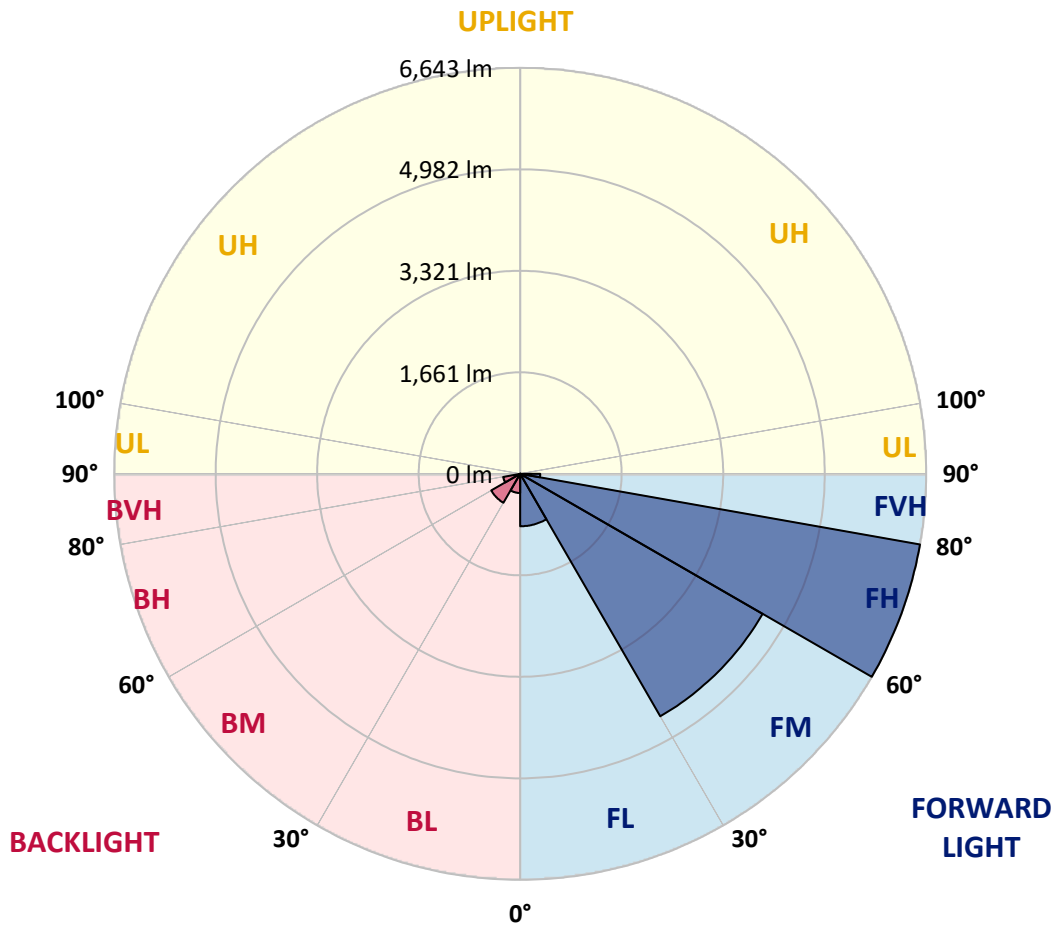
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	858.2	6.3			
FM (30°-60°)	4580.7	33.8			
FH (60°-80°)	6642.9	49.0			G3/7500
FVH (80°-90°)	327.2	2.4			G3/500
BL (0°-30°)	314.0	2.3	B1/500		
BM (30°-60°)	546.3	4.0	B1/1000		
BH (60°-80°)	281.7	2.1	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1607.6	1605.1	1597.6	1585.1	1572.6	1560.1	1557.6	1537.6	1515.1	1497.6	1482.6
5°	1750.1	1747.6	1735.1	1707.6	1680.1	1647.6	1645.1	1597.6	1555.1	1507.6	1467.6
7.5°	1897.6	1892.6	1870.1	1827.6	1780.1	1730.1	1725.1	1655.1	1592.6	1530.1	1472.6
10°	2012.6	2007.6	1975.1	1925.1	1860.1	1797.6	1790.1	1717.6	1655.1	1575.1	1497.6
12.5°	2125.1	2115.1	2072.6	2017.6	1937.6	1877.6	1870.1	1795.1	1720.1	1637.6	1542.6
15°	2230.1	2217.6	2177.6	2107.6	2022.6	1965.1	1960.1	1880.1	1802.6	1707.6	1602.6
17.5°	2302.6	2297.6	2250.1	2172.6	2090.1	2042.6	2037.6	1955.1	1877.6	1777.6	1665.1
20°	2340.1	2340.1	2295.1	2210.1	2135.1	2102.6	2095.1	2017.6	1942.6	1847.6	1730.1
22.5°	2347.6	2355.1	2320.1	2227.6	2172.6	2145.1	2140.1	2072.6	2000.1	1912.6	1802.6
25°	2362.6	2362.6	2345.1	2245.1	2205.1	2197.6	2195.1	2135.1	2070.1	1982.6	1875.1
27.5°	2380.1	2380.1	2367.6	2270.1	2255.1	2252.6	2250.1	2222.6	2170.1	2067.6	1960.1
30°	2425.1	2427.6	2417.6	2320.1	2310.1	2337.6	2342.6	2327.6	2262.6	2135.1	2047.6
32.5°	2537.6	2515.1	2487.6	2355.1	2372.6	2407.6	2410.1	2380.1	2310.1	2207.6	2152.6
35°	2820.2	2687.7	2562.6	2385.1	2392.6	2427.6	2432.6	2430.1	2387.6	2300.1	2272.6
37.5°	3082.7	2895.2	2717.7	2455.1	2430.1	2467.6	2477.6	2520.1	2487.6	2427.6	2435.1
40°	3235.2	3162.7	3037.7	2647.7	2505.1	2562.6	2572.6	2637.6	2625.1	2600.1	2647.7
42.5°	3705.2	3710.2	3575.2	2935.2	2642.7	2735.2	2747.7	2800.2	2817.7	2830.2	2945.2
45°	4250.2	4267.7	4235.2	3452.7	2902.7	2932.7	2950.2	3020.2	3085.2	3165.2	3375.2
47.5°	4905.3	4890.3	4770.3	4085.2	3355.2	3187.7	3200.2	3335.2	3447.7	3622.7	3922.7
50°	5485.3	5522.8	5295.3	4675.3	3992.7	3590.2	3577.7	3710.2	3912.7	4157.7	4535.3
52.5°	6070.3	6015.3	5707.8	5260.3	4747.8	4137.7	4100.2	4172.7	4457.8	4747.8	5135.3
55°	6225.4	6230.4	6125.3	5900.3	5377.8	4802.8	4740.3	4735.3	5090.3	5287.8	5765.3
57.5°	6530.4	6542.9	6567.9	6612.9	6365.4	5467.8	5402.8	5332.8	5677.8	5792.8	6397.9
60°	6840.4	6855.4	7007.9	7250.4	7085.4	6185.4	6115.3	5950.3	6142.8	6297.9	7062.9
62.5°	6800.4	6905.4	7347.9	7830.4	7810.4	6972.9	6885.4	6487.9	6610.4	6745.4	7672.9
65°	6140.3	6252.9	7247.9	7990.5	8538.0	7750.4	7607.9	7042.9	7050.4	7212.9	8260.5
67.5°	5550.3	5672.8	6622.9	7923.0	9018.0	8448.0	8300.5	7600.4	7482.9	7752.9	8575.5
70°	5210.3	5332.8	6125.3	7712.9	9153.0	9220.5	9093.0	8238.0	7998.0	8245.5	8223.0
72.5°	4077.7	4270.2	5490.3	7312.9	9298.0	10048.1	9948.1	9045.5	8435.5	7730.4	6260.4
75°	1625.1	1802.6	3427.7	5885.3	9115.5	10760.6	10683.1	9408.0	7807.9	5520.3	3205.2
77.5°	490.0	525.0	952.6	2910.2	6682.9	9540.5	9515.5	7910.4	5525.3	2562.6	875.0
80°	162.5	180.0	292.5	802.5	3050.2	5960.3	6072.8	5040.3	2510.1	587.5	177.5
82.5°	67.5	75.0	147.5	322.5	1080.1	2567.6	2530.1	2257.6	875.0	365.0	65.0
85°	17.5	22.5	67.5	185.0	395.0	885.1	930.1	757.5	495.0	302.5	20.0
87.5°	0.0	0.0	32.5	75.0	177.5	267.5	280.0	230.0	280.0	227.5	10.0
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°	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1470.1	1457.6	1435.1	1420.1	1400.1	1395.1	1385.1	1372.6	1370.1	1357.6	1360.1
5°	1445.1	1425.1	1385.1	1357.6	1325.1	1315.1	1297.6	1285.1	1275.1	1257.6	1260.1
7.5°	1440.1	1410.1	1355.1	1302.6	1250.1	1212.6	1160.1	1117.6	1082.6	1045.1	1052.6
10°	1457.6	1420.1	1342.6	1270.1	1175.1	1055.1	917.6	827.5	782.5	737.5	742.5
12.5°	1492.6	1447.6	1347.6	1237.6	1045.1	840.0	650.0	527.5	495.0	475.0	477.5
15°	1545.1	1490.1	1362.6	1175.1	870.0	607.5	432.5	380.0	392.5	400.0	400.0
17.5°	1600.1	1537.6	1375.1	1062.6	672.5	425.0	352.5	347.5	365.0	382.5	382.5
20°	1667.6	1587.6	1377.6	920.1	485.0	345.0	332.5	332.5	345.0	365.0	365.0
22.5°	1732.6	1642.6	1355.1	757.5	370.0	320.0	320.0	320.0	327.5	347.5	350.0
25°	1810.1	1710.1	1307.6	585.0	317.5	305.0	305.0	307.5	312.5	330.0	332.5
27.5°	1892.6	1780.1	1227.6	427.5	290.0	287.5	290.0	292.5	295.0	312.5	317.5
30°	1987.6	1857.6	1125.1	320.0	265.0	265.0	272.5	277.5	277.5	292.5	297.5
32.5°	2097.6	1960.1	1002.6	265.0	240.0	237.5	250.0	257.5	257.5	270.0	275.0
35°	2235.1	2065.1	855.0	235.0	220.0	215.0	220.0	232.5	237.5	247.5	250.0
37.5°	2417.6	2190.1	697.5	217.5	205.0	195.0	195.0	197.5	207.5	217.5	220.0
40°	2650.2	2327.6	542.5	205.0	190.0	180.0	172.5	170.0	167.5	175.0	180.0
42.5°	2942.7	2482.6	405.0	192.5	177.5	162.5	152.5	142.5	130.0	127.5	130.0
45°	3317.7	2672.7	300.0	182.5	170.0	147.5	130.0	112.5	90.0	82.5	85.0
47.5°	3760.2	2870.2	235.0	172.5	165.0	130.0	107.5	77.5	55.0	50.0	52.5
50°	4230.2	3060.2	200.0	160.0	155.0	112.5	77.5	47.5	32.5	32.5	35.0
52.5°	4630.3	3167.7	182.5	150.0	140.0	92.5	50.0	27.5	20.0	20.0	22.5
55°	5017.8	3225.2	170.0	140.0	120.0	65.0	27.5	17.5	12.5	12.5	12.5
57.5°	5417.8	3250.2	155.0	127.5	95.0	40.0	15.0	10.0	7.5	7.5	7.5
60°	5772.8	3202.7	132.5	105.0	62.5	20.0	7.5	7.5	5.0	2.5	2.5
62.5°	6070.3	3112.7	92.5	75.0	37.5	10.0	5.0	2.5	0.0	0.0	0.0
65°	6252.9	2967.7	60.0	50.0	22.5	7.5	2.5	0.0	0.0	0.0	0.0
67.5°	6200.4	2695.2	37.5	32.5	10.0	5.0	2.5	0.0	0.0	0.0	0.0
70°	5595.3	2210.1	27.5	20.0	7.5	2.5	0.0	0.0	0.0	0.0	0.0
72.5°	4032.7	1495.1	20.0	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1940.1	532.5	12.5	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	475.0	117.5	7.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	105.0	22.5	5.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	10.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	2.5	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)