

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1209163

Luminaire Tested: UPW-SA2-090-827-U-T3-HSS

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1209163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA2-090-827-U-T3-HSS
Description: UNDERPASS WALL MOUNT LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6389 lumens
Efficiency: N/A
Efficacy: 75.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

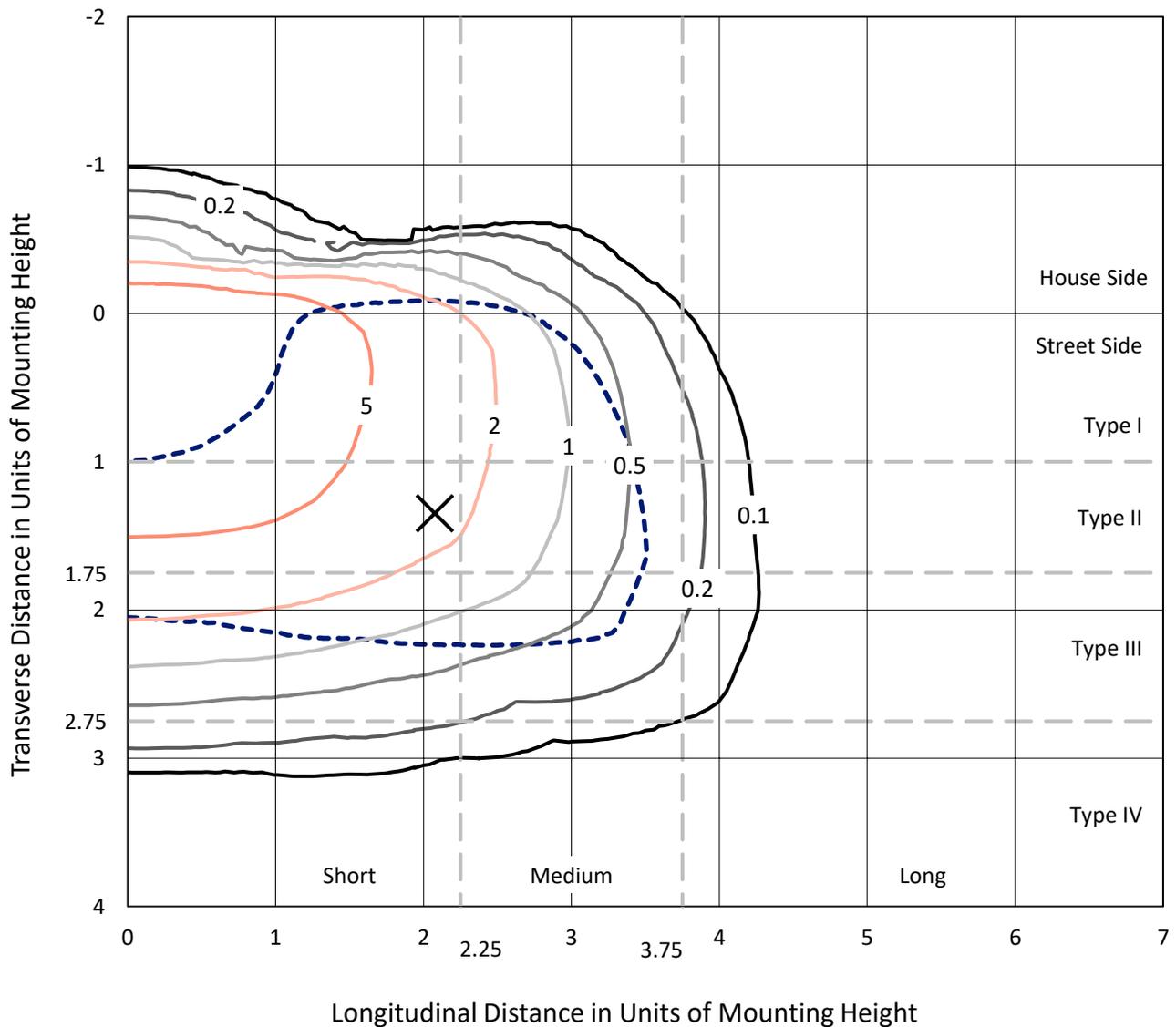
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

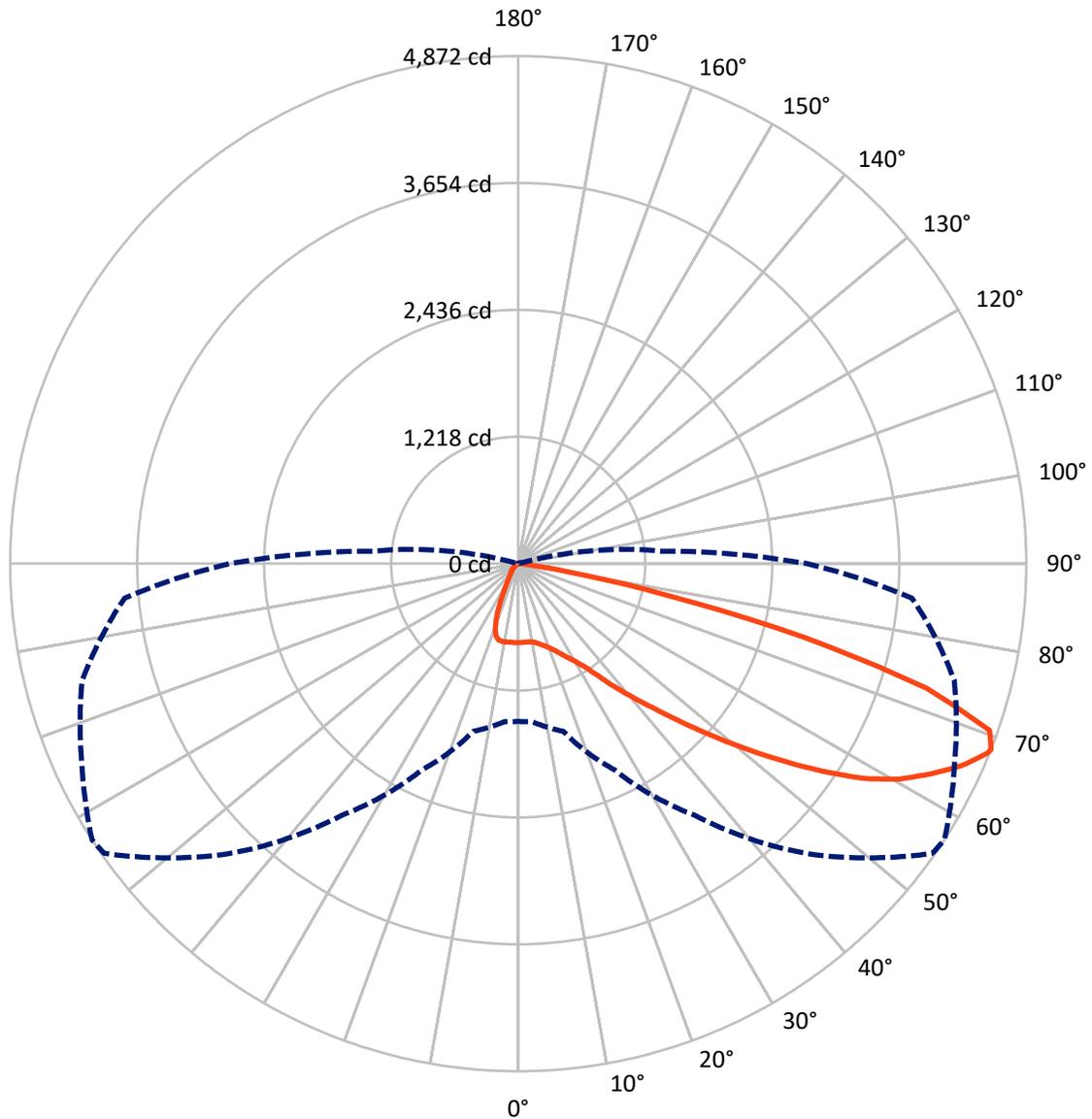
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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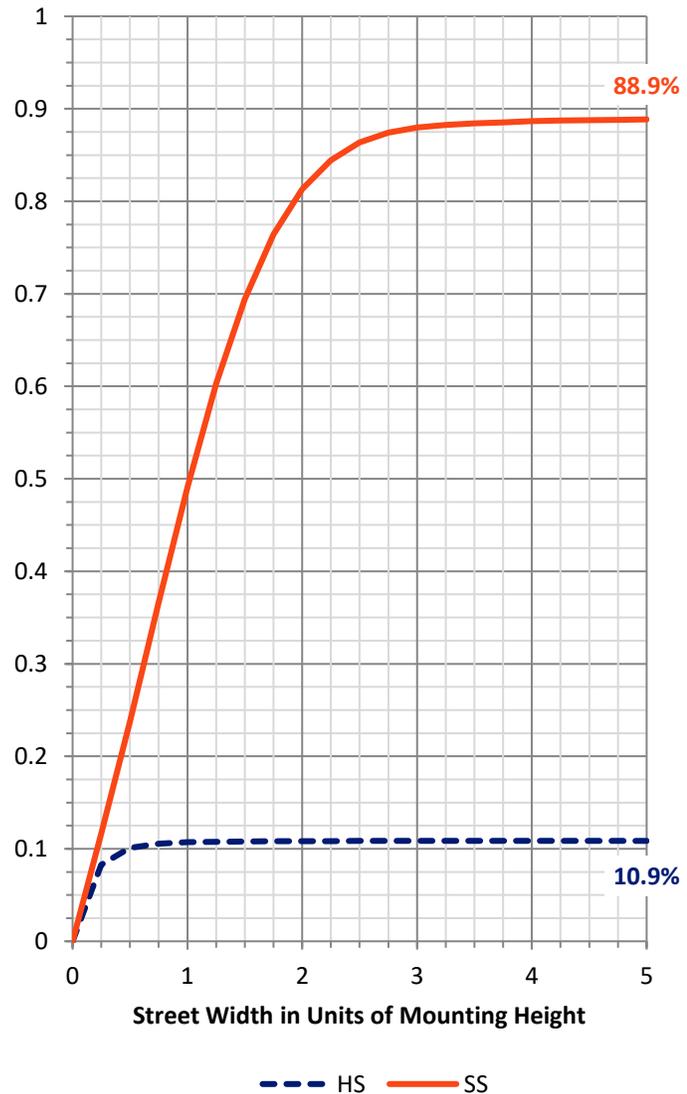
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	700.6	0.0	700.6
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	5688.4	0.0	5688.4
	% Fixture	89.0	0.0	89.0
Total	Lumens	6389.0	0.0	6389.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	1.1
10°-20°	196.9	3.1
20°-30°	339.6	5.3
30°-40°	586.2	9.2
40°-50°	1002.7	15.7
50°-60°	1604.2	25.1
60°-70°	1853.5	29.0
70°-80°	708.2	11.1
80°-90°	26.5	0.4
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°	6389.0	100.0
0°-180°	6389.0	100.0



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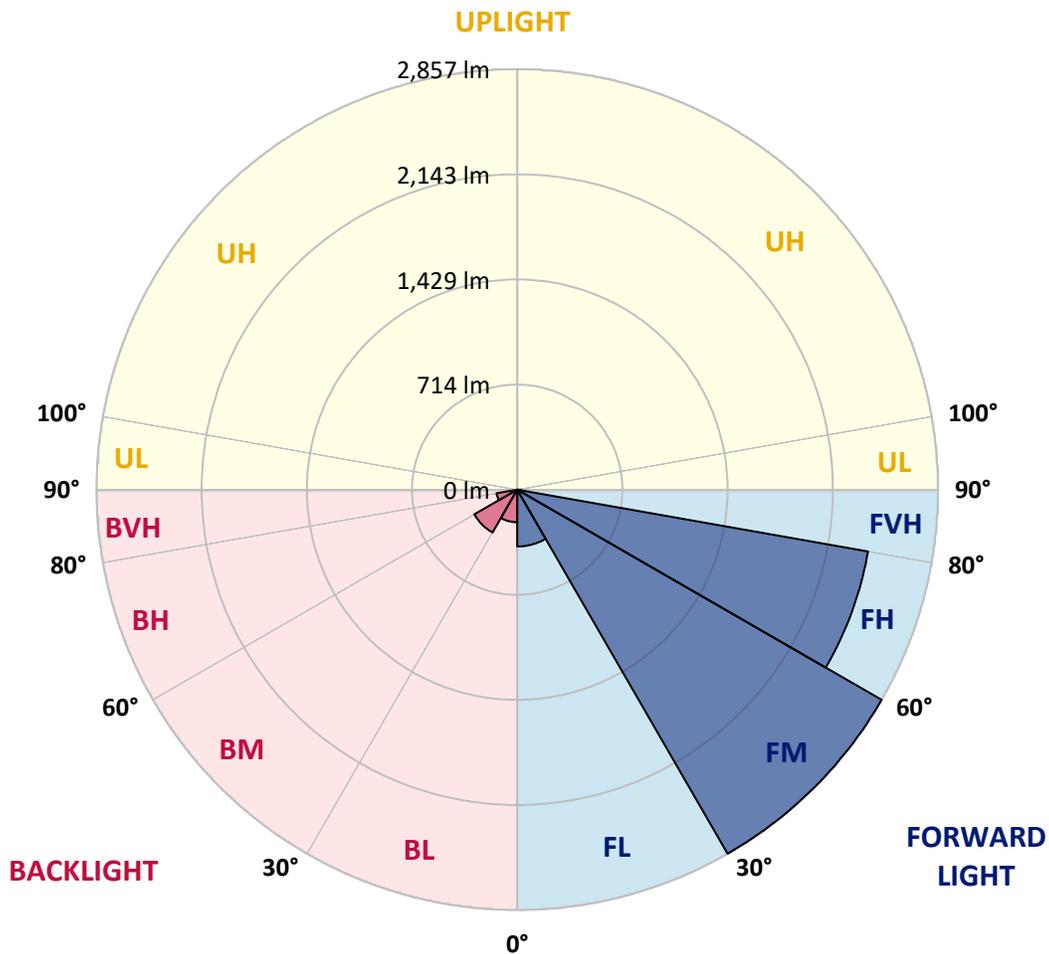
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.2	6.0			
FM	(30°-60°)	2857.1	44.7			
FH	(60°-80°)	2419.1	37.9			G2/5000
FVH	(80°-90°)	26.1	0.4			G1/100
BL	(0°-30°)	221.4	3.5	B1/500		
BM	(30°-60°)	336.0	5.3	B1/1000		
BH	(60°-80°)	142.7	2.2	B1/500		G1/500
BVH	(80°-90°)	0.5	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2
2.5°	741.4	744.7	747.1	748.6	750.4	754.3	755.6	757.4	758.3	758.3	760.4
5°	712.1	715.7	720.8	725.0	733.5	744.4	752.2	755.3	760.7	765.5	768.2
7.5°	684.9	689.1	695.1	705.1	719.6	737.1	753.4	757.7	768.2	778.5	783.7
10°	667.3	670.7	678.5	692.7	711.8	736.2	759.2	764.3	782.4	799.7	809.3
12.5°	661.3	664.3	672.5	688.5	712.1	740.8	772.5	780.0	806.6	831.7	845.3
15°	670.1	670.7	679.4	694.5	717.8	751.9	794.5	803.6	837.1	869.8	886.7
17.5°	703.9	701.2	705.7	712.4	730.8	766.7	817.8	831.4	876.1	914.5	930.5
20°	788.5	788.5	778.2	760.1	760.4	789.7	849.2	864.6	919.3	963.7	978.2
22.5°	933.2	930.5	909.9	865.5	824.7	829.3	887.6	907.5	971.3	1018.7	1023.5
25°	1107.2	1103.9	1072.2	1009.6	938.9	893.3	939.5	962.5	1033.2	1075.2	1065.2
27.5°	1291.5	1288.8	1257.3	1179.7	1079.1	995.4	1001.5	1023.2	1096.3	1137.7	1106.0
30°	1470.0	1470.9	1439.8	1360.1	1246.2	1125.6	1080.0	1092.7	1157.7	1199.6	1154.3
32.5°	1639.8	1641.0	1614.1	1525.0	1418.7	1277.0	1188.8	1185.4	1228.9	1270.3	1218.4
35°	1791.2	1794.2	1775.8	1706.6	1593.9	1445.6	1329.9	1322.0	1330.2	1377.0	1316.6
37.5°	1937.1	1938.9	1925.0	1866.7	1772.4	1630.7	1508.1	1496.9	1479.4	1515.3	1446.2
40°	2096.9	2092.4	2076.3	2023.5	1942.5	1835.3	1699.6	1680.3	1649.8	1681.8	1616.5
42.5°	2245.5	2240.4	2243.1	2183.3	2115.0	2045.5	1922.9	1889.6	1871.8	1908.7	1825.6
45°	2431.3	2428.6	2437.7	2385.7	2330.4	2280.0	2178.8	2142.5	2134.7	2177.9	2078.5
47.5°	2614.7	2621.3	2649.4	2627.4	2605.0	2560.6	2449.7	2433.4	2438.3	2490.5	2345.2
50°	2767.6	2775.4	2852.4	2877.8	2910.1	2884.2	2773.0	2763.0	2782.1	2829.2	2632.2
52.5°	2878.1	2894.1	2989.9	3106.8	3224.6	3242.2	3131.3	3122.2	3147.9	3155.2	2854.0
55°	2954.9	2969.1	3077.5	3291.4	3531.3	3606.8	3537.9	3502.9	3498.0	3426.4	3087.2
57.5°	2968.5	2966.9	3122.8	3410.7	3771.7	3966.6	3923.1	3888.7	3789.6	3677.2	3354.5
60°	2891.7	2900.5	3081.4	3452.1	3922.8	4238.8	4242.1	4197.4	4043.0	3921.0	3613.7
62.5°	2655.5	2691.1	2873.9	3343.7	3921.0	4348.5	4475.9	4441.8	4257.2	4120.7	3876.6
65°	2272.4	2285.1	2459.4	2972.1	3656.0	4302.5	4686.5	4673.8	4450.3	4314.6	4011.6
67.5°	1659.4	1632.0	1815.0	2340.4	3095.3	4034.9	4837.6	4853.6	4599.2	4354.5	3867.8
68°	1514.4	1522.6	1665.2	2184.2	2948.5	3940.3	4847.5	4872.0	4614.0	4328.5	3789.3
70°	902.7	918.4	1045.6	1503.9	2243.1	3405.3	4740.0	4795.9	4525.8	4060.5	3277.5
72.5°	230.5	249.2	369.5	673.1	1281.2	2399.3	4001.3	4095.9	3929.4	3294.1	2212.6
75°	94.9	99.7	132.0	221.7	477.3	1080.9	2637.3	2839.8	2724.1	1972.1	1000.0
77.5°	65.6	68.9	84.9	123.0	206.6	366.4	1293.0	1439.2	1296.6	673.1	218.1
80°	47.1	49.8	60.7	81.9	118.7	130.8	421.4	487.3	387.0	147.7	54.1
82.5°	28.1	30.2	45.3	58.3	72.2	62.5	104.8	119.0	112.1	73.4	24.2
85°	13.9	16.3	30.5	41.7	39.0	26.3	32.0	35.6	44.1	44.7	13.0
87.5°	0.9	1.8	17.8	25.1	10.9	6.0	9.4	11.5	15.7	22.1	5.4
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°	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2	759.2
2.5°	761.3	761.6	759.5	758.6	759.2	755.6	754.0	754.7	754.7	755.6	754.0
5°	768.8	768.8	765.2	760.4	757.7	750.7	746.2	745.0	744.1	743.5	742.3
7.5°	785.2	783.3	777.0	766.4	757.4	742.3	730.8	724.7	721.7	720.5	719.6
10°	811.4	808.1	797.5	777.9	757.1	730.2	705.1	687.3	672.5	666.4	662.8
12.5°	846.8	842.0	824.1	791.5	755.0	705.4	651.0	598.8	550.1	530.2	520.2
15°	887.6	880.6	852.5	803.0	742.6	649.5	531.4	439.9	372.5	347.1	336.2
17.5°	929.0	919.9	877.3	810.2	705.4	533.8	372.8	281.6	236.5	224.5	220.2
20°	970.7	957.4	898.8	804.8	621.4	384.9	245.9	205.7	192.7	189.1	187.9
22.5°	1010.2	989.7	918.1	783.7	492.1	258.3	194.6	181.9	177.6	175.5	174.9
25°	1044.7	1016.0	935.0	718.4	348.3	195.2	175.2	171.0	165.6	161.6	161.9
27.5°	1077.0	1042.3	945.3	610.8	232.3	166.8	162.2	156.5	146.5	140.8	140.8
30°	1116.0	1077.3	952.8	470.1	171.0	147.4	143.8	135.0	121.4	113.9	113.9
32.5°	1174.6	1130.5	948.0	329.9	141.7	129.6	121.1	109.1	94.3	87.0	86.7
35°	1264.3	1212.6	913.6	216.3	125.1	112.7	99.1	84.3	71.3	65.3	65.0
37.5°	1385.1	1322.6	836.2	154.7	112.1	97.0	80.7	64.3	54.7	50.8	50.5
40°	1541.9	1450.4	725.6	125.4	100.0	81.9	62.2	49.8	43.2	40.2	40.5
42.5°	1730.1	1587.2	593.0	108.2	88.2	67.4	48.6	39.3	35.0	32.9	32.3
45°	1939.2	1722.3	454.1	96.4	76.4	54.4	38.1	31.1	27.8	26.6	26.6
47.5°	2169.1	1853.7	332.3	86.1	63.7	42.0	30.5	25.4	22.7	21.8	21.4
50°	2377.8	1944.9	239.6	75.2	52.3	33.2	24.8	21.1	19.3	18.1	18.1
52.5°	2551.9	1973.6	176.4	63.4	42.3	26.6	20.5	18.1	16.3	15.4	15.4
55°	2705.0	1961.8	131.1	52.3	34.1	21.8	17.5	15.4	13.9	13.0	13.0
57.5°	2851.8	1923.8	97.9	42.6	27.5	17.5	14.8	13.0	11.5	10.9	10.9
60°	2971.8	1860.3	72.8	34.4	22.1	14.2	12.4	10.6	9.4	8.5	8.5
62.5°	3069.1	1790.3	53.5	28.4	17.5	11.2	9.7	8.8	6.9	6.0	6.0
65°	3069.7	1673.9	40.2	23.6	13.6	8.8	7.3	6.9	4.5	3.6	3.3
67.5°	2847.6	1443.1	30.8	20.2	10.6	6.6	5.4	5.7	2.4	1.5	1.2
68°	2766.9	1384.5	29.0	19.9	10.0	6.3	5.1	5.7	2.1	1.2	0.9
70°	2332.8	1101.5	23.3	19.3	8.8	4.8	4.2	5.7	1.8	0.9	0.6
72.5°	1492.1	639.2	17.2	15.4	6.6	3.6	2.7	5.1	1.8	0.6	0.3
75°	635.0	198.2	11.8	10.9	3.9	2.7	1.8	3.3	1.2	0.3	0.0
77.5°	133.8	44.7	6.9	6.6	2.7	1.8	1.2	0.9	0.3	0.0	0.0
80°	34.4	13.0	3.6	3.3	1.5	0.9	0.6	0.0	0.0	0.0	0.0
82.5°	10.9	5.1	2.1	1.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.4	3.0	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	0.9	0.3	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)