

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: P1209648

Luminaire Tested: UPW-SA2-130-827-U-T2R

Issue Date: 11/4/2025

**Test Information**

Test Method: LM-79-2024  
Report Number: P1209648  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 2/21/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: UPW-SA2-130-827-U-T2R  
Description: UNDERPASS WALL MOUNT LUMINAIRE  
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12401 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

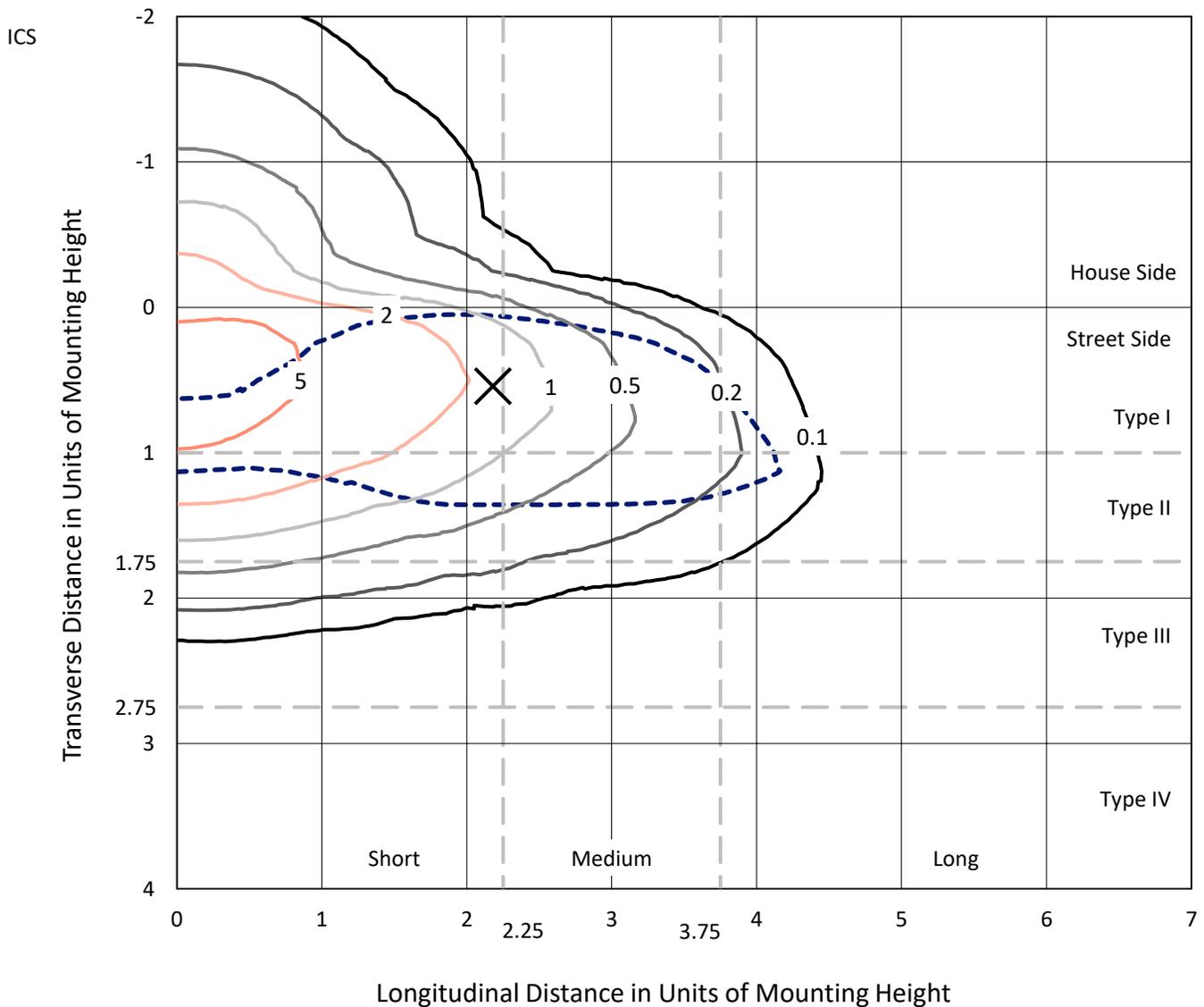
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

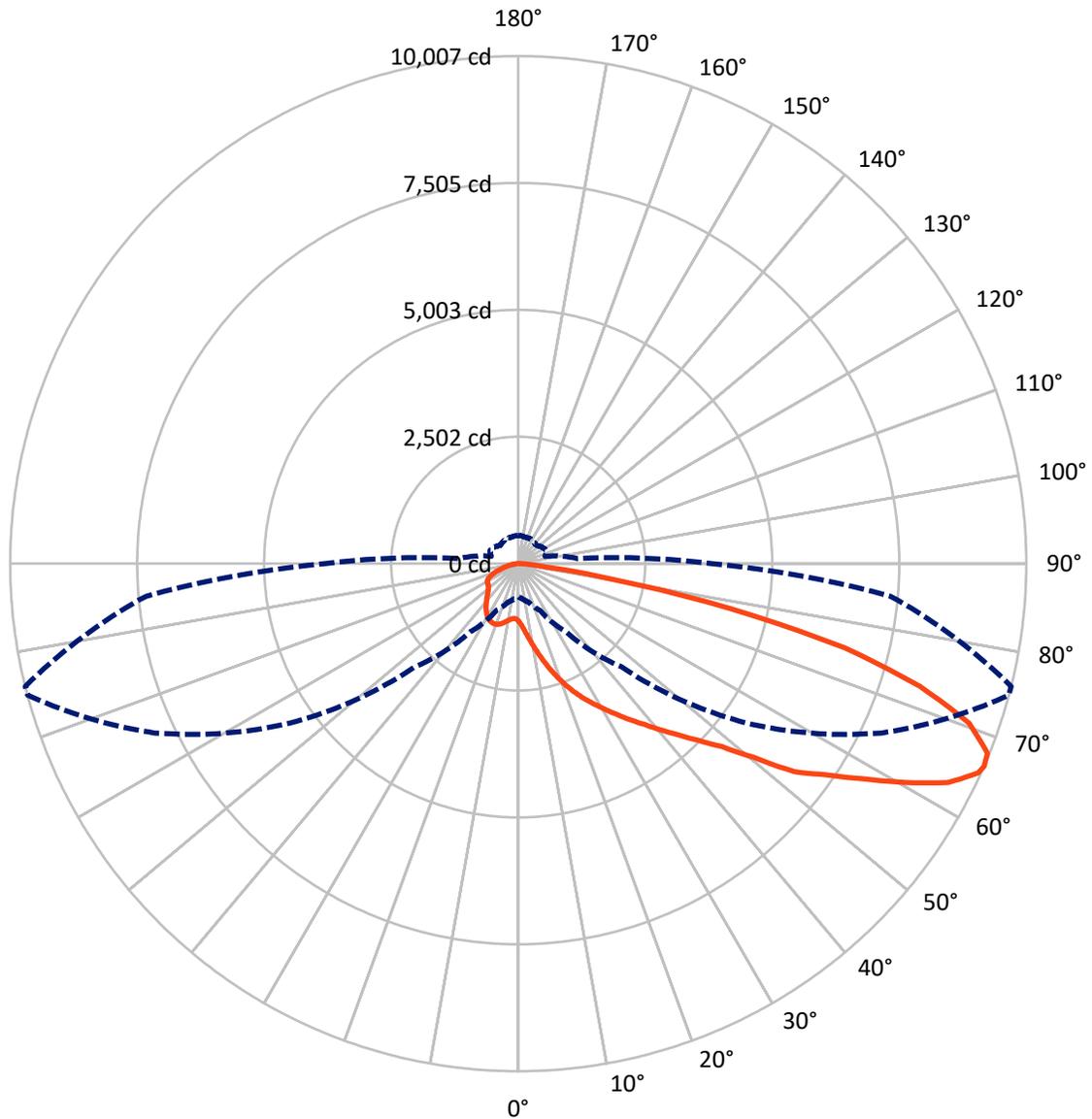


Based on 20 foot mounting height. Maximum calculated value = 7.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2086.7	0.0	2086.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	10314.3	0.0	10314.3
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	12401.0	0.0	12401.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.9	1.1
10°-20°	540.8	4.4
20°-30°	1050.9	8.5
30°-40°	1715.3	13.8
40°-50°	2343.5	18.9
50°-60°	2729.7	22.0
60°-70°	2447.3	19.7
70°-80°	1236.7	10.0
80°-90°	199.7	1.6
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°	12401.0	100.0
0°-180°	12401.0	100.0



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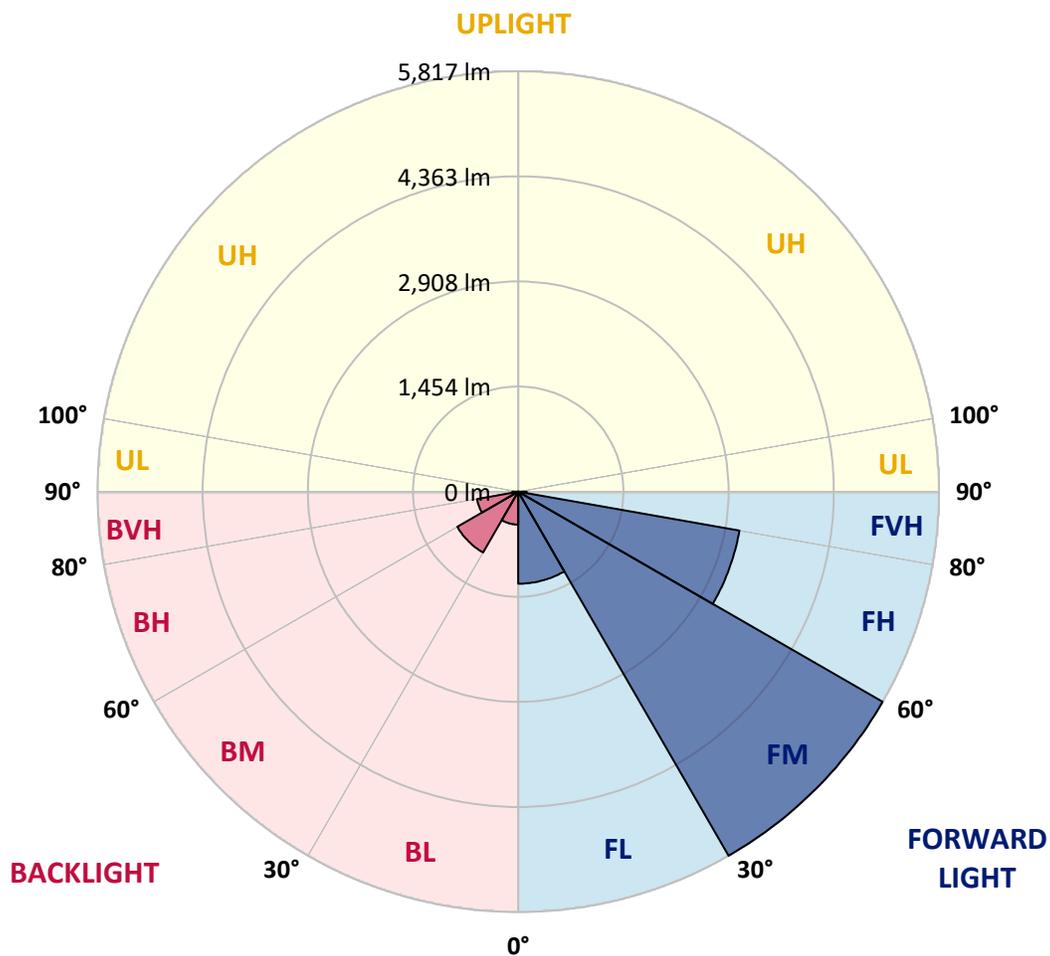
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1273.6	10.3			
FM (30°-60°)	5816.9	46.9			
FH (60°-80°)	3105.9	25.0			G2/5000
FVH (80°-90°)	117.9	1.0			G2/225
BL (0°-30°)	455.1	3.7	B1/500		
BM (30°-60°)	971.7	7.8	B1/1000		
BH (60°-80°)	578.1	4.7	B2/1000		G2/1000
BVH (80°-90°)	81.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5
2.5°	1503.4	1480.7	1478.6	1445.3	1437.7	1374.1	1327.4	1278.6	1223.0	1212.1	1168.3
5°	1931.1	1929.0	1900.0	1845.7	1803.1	1694.5	1587.2	1473.5	1348.9	1328.7	1230.2
7.5°	2315.9	2312.6	2290.2	2231.7	2170.3	2036.8	1883.6	1709.3	1507.2	1477.3	1313.9
10°	2608.1	2606.8	2599.3	2556.3	2504.1	2376.1	2206.9	1969.0	1691.2	1650.3	1418.8
12.5°	2833.8	2836.3	2841.3	2826.2	2801.3	2692.3	2518.8	2244.4	1887.3	1846.9	1535.4
15°	2986.6	2994.2	3020.3	3041.7	3054.8	2987.8	2819.9	2526.0	2107.1	2058.7	1664.6
17.5°	3063.6	3072.0	3117.1	3181.9	3241.7	3235.0	3101.5	2794.6	2318.0	2271.3	1803.6
20°	3130.1	3136.5	3187.0	3264.9	3370.5	3417.3	3342.3	3053.1	2549.2	2493.6	1950.9
22.5°	3323.0	3331.0	3346.1	3390.3	3483.8	3569.7	3533.5	3297.7	2760.9	2709.1	2090.7
25°	3695.1	3704.8	3672.0	3634.5	3652.2	3712.0	3718.7	3520.8	2975.6	2917.1	2241.0
27.5°	4143.5	4157.4	4101.4	4005.0	3920.8	3897.6	3889.6	3703.5	3180.7	3112.9	2389.6
30°	4582.6	4606.6	4533.8	4408.7	4254.2	4145.6	4065.2	3882.5	3382.7	3317.9	2529.8
32.5°	5011.6	5001.9	4896.2	4774.1	4593.1	4457.1	4262.6	4074.4	3610.1	3535.6	2669.1
35°	5305.4	5308.8	5210.7	5065.9	4893.3	4788.9	4527.0	4281.6	3842.0	3773.4	2827.4
37.5°	5555.5	5539.9	5428.8	5293.7	5145.0	5100.4	4836.5	4509.8	4093.4	4018.4	2995.8
40°	5638.9	5620.8	5547.9	5450.7	5331.5	5327.8	5177.9	4768.3	4377.6	4303.5	3185.7
42.5°	5588.4	5565.2	5535.3	5508.8	5472.2	5489.0	5498.7	5071.4	4689.9	4607.0	3405.5
45°	5401.9	5366.9	5388.0	5445.6	5525.2	5620.4	5788.3	5406.9	5039.8	4970.3	3663.5
47.5°	5115.2	5083.6	5149.3	5272.6	5489.0	5729.8	6062.4	5777.4	5457.4	5388.4	4031.1
50°	4711.8	4721.1	4815.0	5039.4	5366.5	5780.3	6400.0	6267.9	6064.5	6000.1	4532.5
52.5°	4050.0	4051.7	4316.1	4684.5	5149.3	5754.2	6587.4	6894.7	6893.5	6815.6	5009.9
55°	3435.4	3472.8	3682.1	4171.7	4797.3	5649.8	6718.3	7199.5	7437.8	7346.5	5454.9
57.5°	2835.0	2856.9	3055.2	3546.9	4295.0	5371.5	6852.6	7565.4	8065.1	8007.4	6008.1
60°	2152.2	2185.8	2390.9	2845.1	3652.6	4877.7	6865.3	7947.2	8814.9	8756.8	6625.7
62.5°	1396.9	1455.0	1647.0	2072.6	2875.4	4167.5	6572.2	8196.9	9525.6	9504.9	7173.8
65°	802.8	846.6	980.1	1308.5	1983.8	3275.8	5875.5	8100.9	9963.0	9951.2	7378.9
66°	655.9	683.3	785.6	1022.6	1636.8	2876.7	5470.5	7898.4	10006.3	10006.8	7355.3
67.5°	524.6	536.8	582.7	732.1	1207.9	2280.1	4746.8	7451.7	9952.4	9967.2	7203.3
70°	434.1	440.4	454.7	490.9	659.3	1375.0	3369.3	6291.0	9411.5	9422.8	6610.1
72.5°	389.4	393.2	398.7	403.7	465.2	768.3	2057.8	5032.6	8251.6	8266.3	5706.2
75°	352.8	354.9	354.1	354.5	390.3	489.6	1063.4	3757.4	6672.0	6642.5	4371.2
77.5°	309.9	312.0	307.8	308.6	345.2	376.4	529.2	2630.4	4502.6	4294.6	2462.9
80°	261.9	263.5	261.9	264.8	300.6	284.2	307.8	1479.8	1990.9	1883.1	875.7
82.5°	197.9	205.0	210.1	221.9	247.5	202.1	205.9	576.3	606.2	577.2	268.6
85°	86.7	105.7	158.3	169.7	186.1	121.2	135.1	234.9	246.7	239.1	97.7
87.5°	22.7	24.8	78.3	98.5	103.1	54.7	70.3	106.9	112.8	106.9	32.4
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°	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5	1132.5
2.5°	1145.1	1124.5	1087.4	1054.6	1029.8	1012.9	996.1	987.7	982.6	977.6	978.4
5°	1181.7	1140.1	1076.5	1031.5	1006.2	990.2	981.8	978.4	976.3	971.2	971.2
7.5°	1236.9	1178.0	1090.4	1044.1	1024.3	1012.1	1007.0	1005.3	1002.8	996.9	997.8
10°	1306.4	1223.8	1119.4	1074.4	1056.3	1042.8	1035.7	1033.1	1028.5	1021.8	1022.6
12.5°	1388.0	1280.7	1157.8	1110.6	1088.7	1070.6	1058.8	1051.7	1043.7	1034.8	1035.2
15°	1477.3	1342.6	1199.0	1143.0	1113.1	1087.9	1068.9	1056.7	1044.1	1033.1	1032.7
17.5°	1567.8	1402.4	1230.6	1160.7	1120.3	1087.0	1061.3	1042.4	1026.8	1013.3	1012.1
20°	1665.5	1456.2	1248.3	1159.0	1106.8	1067.2	1033.1	1009.6	992.3	978.8	976.7
22.5°	1764.8	1506.8	1251.2	1141.8	1076.9	1028.5	992.7	966.6	948.9	935.0	930.0
25°	1855.8	1545.9	1239.0	1108.5	1035.2	983.0	948.1	921.6	907.3	890.8	885.8
27.5°	1938.7	1573.3	1214.6	1066.0	988.5	937.1	904.3	881.6	866.0	853.4	849.2
30°	2013.2	1588.0	1174.6	1015.5	940.5	893.8	866.0	850.4	836.9	821.0	818.0
32.5°	2084.0	1588.0	1123.2	960.3	892.9	855.5	839.1	829.4	814.2	798.6	794.4
35°	2154.7	1578.3	1062.6	902.6	849.2	828.1	827.3	815.9	792.7	771.7	766.2
37.5°	2229.2	1558.5	994.4	848.7	813.4	815.9	823.1	797.8	765.0	735.1	727.1
40°	2313.4	1531.2	923.7	802.0	783.5	810.4	811.7	771.7	707.7	680.3	673.2
42.5°	2412.3	1503.8	858.0	760.7	759.9	794.0	790.2	715.3	677.0	663.1	659.3
45°	2542.4	1488.2	795.7	721.6	741.4	767.5	753.6	684.1	668.1	660.1	656.8
47.5°	2747.4	1496.2	738.4	690.4	722.9	741.0	685.4	671.5	660.1	650.4	647.1
50°	3004.3	1491.6	692.1	669.0	701.8	713.2	654.7	655.1	649.2	638.2	633.2
52.5°	3197.5	1455.4	662.2	656.8	683.3	663.9	635.3	639.1	636.1	620.1	614.7
55°	3384.0	1424.2	647.1	652.1	669.8	602.5	612.6	621.8	618.9	603.3	600.8
57.5°	3616.0	1418.4	637.8	653.4	658.4	571.7	590.7	602.9	600.8	594.0	592.8
60°	3900.1	1420.0	629.4	655.5	645.8	549.0	570.0	585.6	586.9	585.6	584.8
62.5°	4056.3	1374.1	608.3	649.6	623.5	529.2	548.6	571.3	571.7	574.2	573.8
65°	3923.7	1236.9	569.2	629.0	586.0	512.8	530.0	554.9	548.6	559.9	559.9
66°	3794.9	1157.8	549.8	615.5	570.0	506.5	524.1	546.5	538.5	554.0	554.0
67.5°	3531.8	1024.3	514.9	586.9	547.3	497.6	517.4	532.6	521.6	544.8	543.1
70°	3051.0	792.3	444.6	522.0	509.8	484.6	508.1	504.8	488.8	524.1	517.4
72.5°	2572.3	602.0	357.0	437.0	453.0	468.2	495.1	469.4	449.2	474.0	459.3
75°	1996.0	452.6	282.1	339.7	382.7	442.5	479.5	428.6	399.5	397.0	389.0
77.5°	1079.0	310.7	223.6	259.3	304.0	410.5	469.0	384.8	341.0	330.9	324.6
80°	427.3	202.1	162.5	196.6	212.6	364.2	443.7	333.9	281.2	271.1	261.4
82.5°	176.4	119.6	104.8	131.8	138.5	311.5	398.3	273.7	217.2	300.6	319.1
85°	75.8	65.7	62.3	68.2	78.3	218.5	317.0	208.8	234.5	209.2	166.3
87.5°	22.7	27.8	26.5	26.1	28.6	52.2	168.8	116.2	172.2	65.3	48.8
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)