

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: P285805

Luminaire Tested: **USSL-XL-C047-D-U-T3-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P285805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1902-125-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-XL-C047-D-U-T3-AP-7030-HSS
Description: PREVAIL XL AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24711.6 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Luminous Opening: Rectangular (W 1.29' x L: 1.79' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 176
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

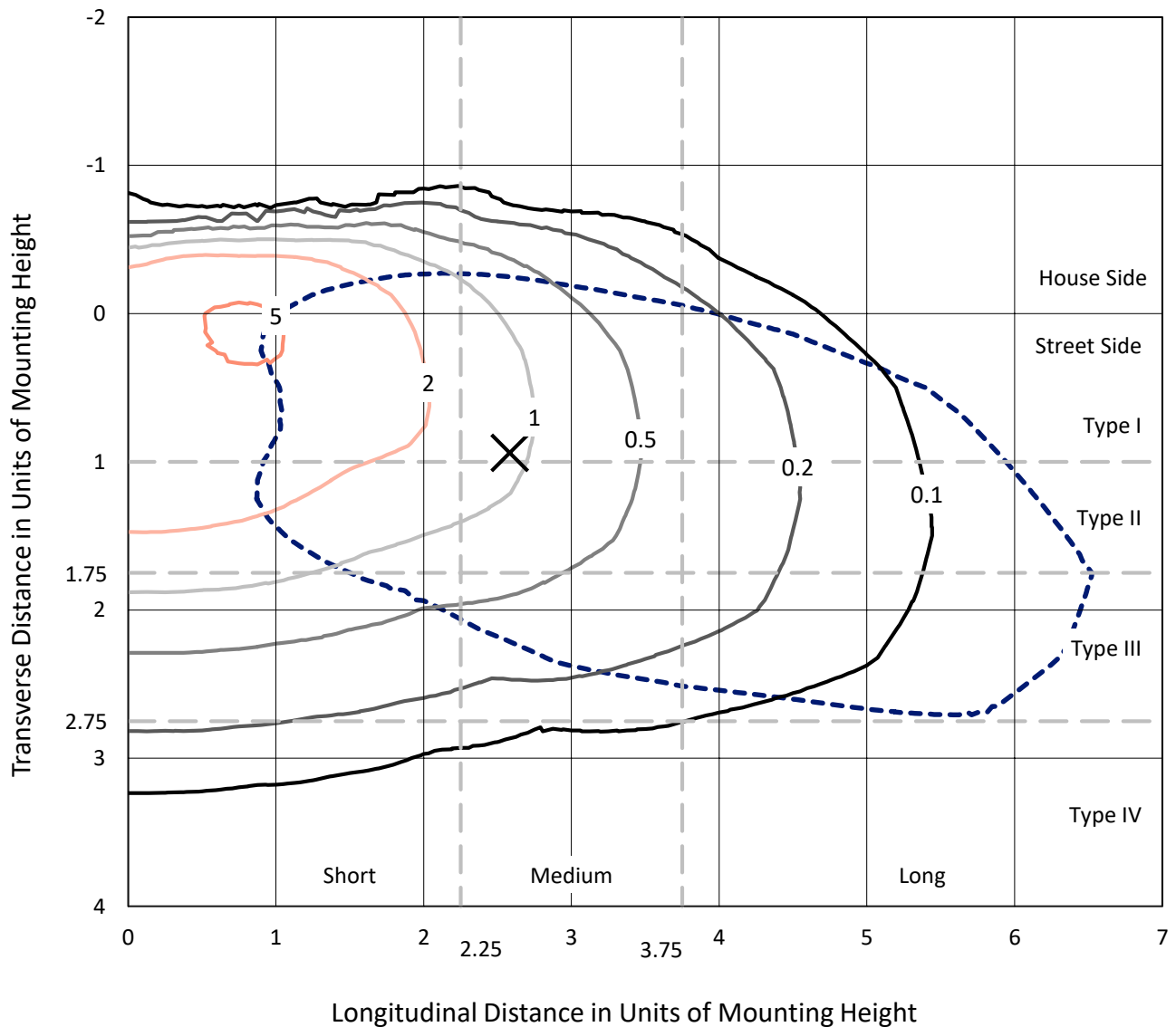


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

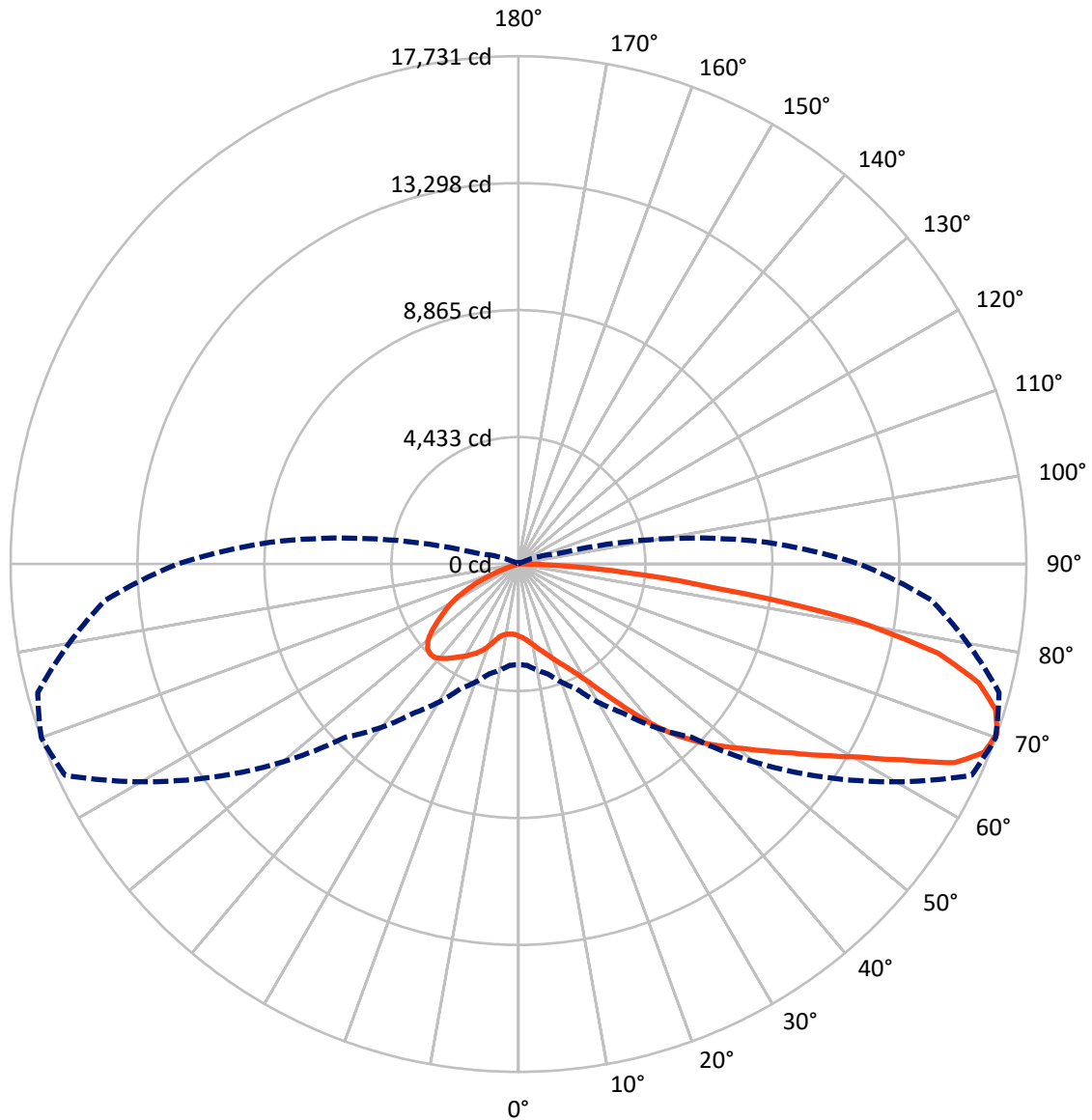


Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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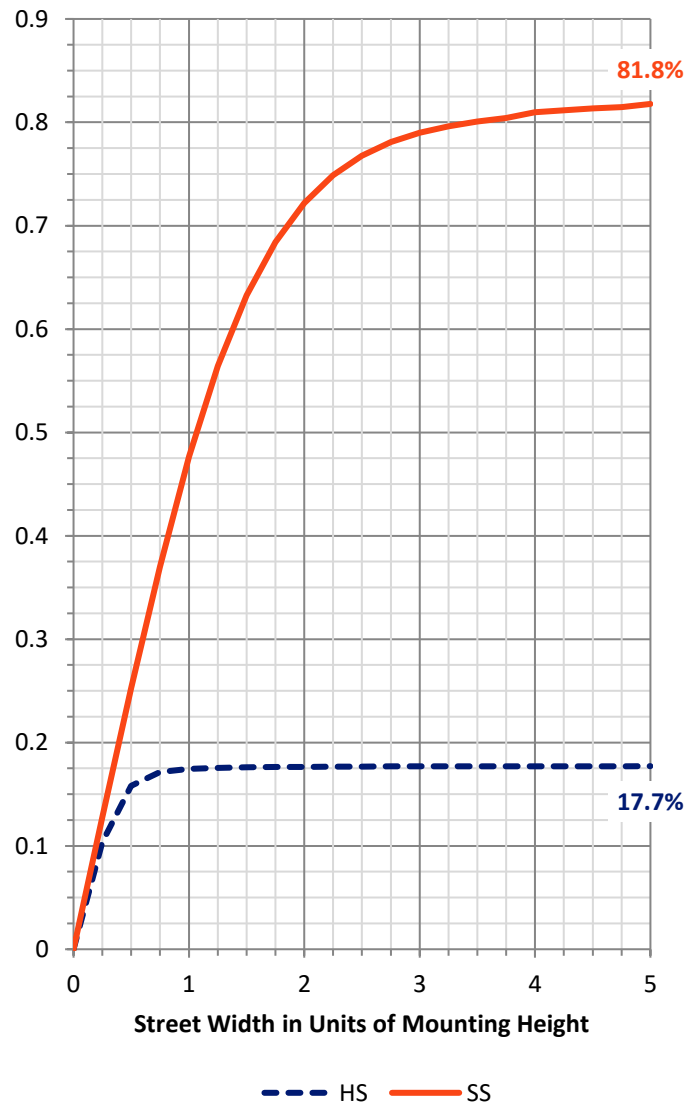
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4428.1	0.0	4428.1
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	20283.4	0.0	20283.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	24711.6	0.0	24711.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.0
10°-20°	767.3	3.1
20°-30°	1397.1	5.7
30°-40°	2375.3	9.6
40°-50°	3736.2	15.1
50°-60°	5043.5	20.4
60°-70°	5900.4	23.9
70°-80°	4390.5	17.8
80°-90°	857.1	3.5
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°	24711.6	100.0
0°-180°	24711.6	100.0

Coefficient of Utilization



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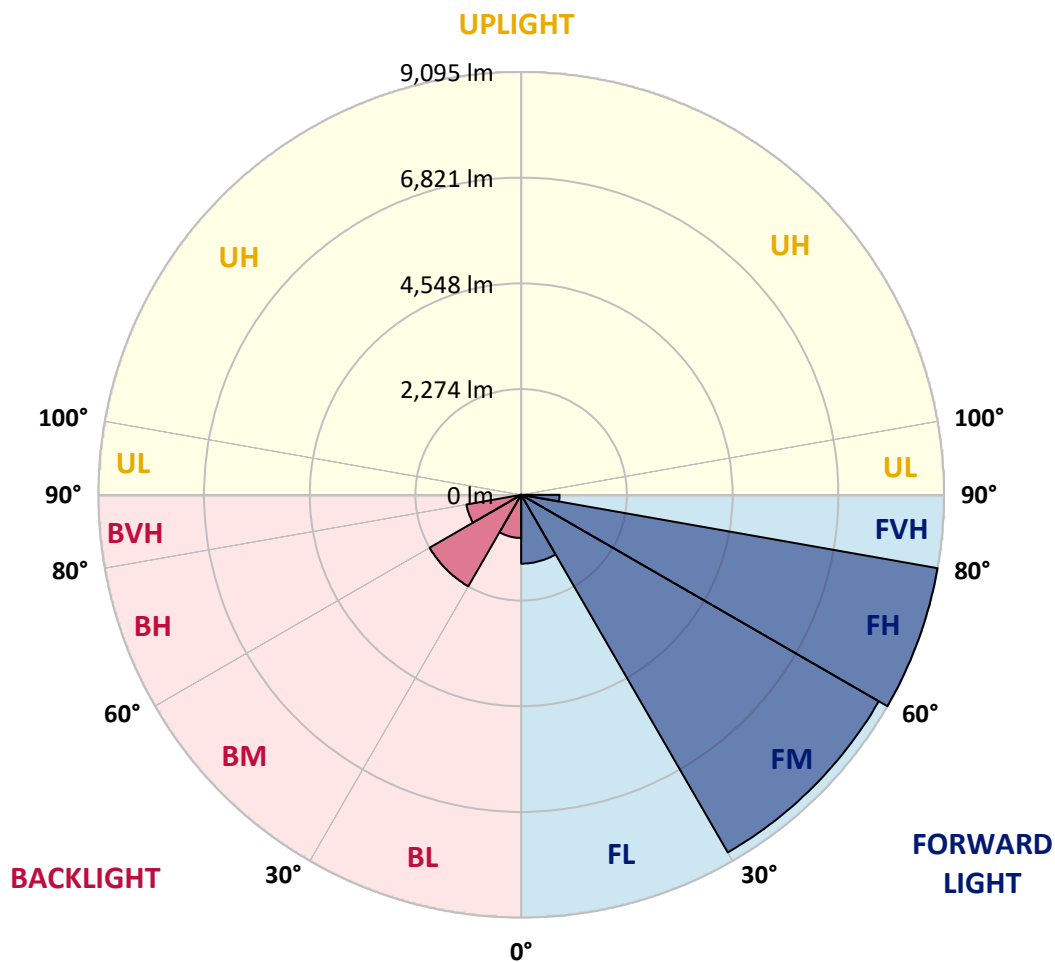
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1480.3	6.0			
FM	(30°-60°)	8882.4	35.9			
FH	(60°-80°)	9095.0	36.8			G4/12000
FVH	(80°-90°)	825.7	3.3			G5
BL	(0°-30°)	928.2	3.8	B2/1000		
BM	(30°-60°)	2272.7	9.2	B2/2500		
BH	(60°-80°)	1195.9	4.8	B3/2500		G3/2500
BVH	(80°-90°)	31.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6
2.5°	2667.2	2665.1	2669.3	2658.9	2665.1	2645.3	2627.6	2602.7	2564.2	2550.6	2524.6
5°	2797.3	2799.3	2798.3	2791.0	2781.7	2760.8	2725.4	2691.1	2645.3	2623.5	2572.5
7.5°	2908.6	2909.6	2913.8	2911.8	2906.6	2879.4	2847.2	2803.5	2748.3	2720.2	2650.5
10°	2997.1	2996.0	3002.3	3011.6	3032.5	3011.6	2969.0	2933.6	2874.2	2836.8	2750.4
12.5°	3055.4	3048.1	3065.8	3091.7	3129.2	3132.3	3104.2	3067.9	3015.8	2972.1	2875.3
15°	3082.4	3079.3	3111.5	3165.7	3219.8	3237.5	3233.3	3206.2	3167.7	3124.1	3018.9
17.5°	3145.9	3144.8	3166.7	3230.2	3293.6	3338.4	3384.2	3380.0	3344.6	3313.5	3204.2
20°	3248.9	3251.0	3251.0	3306.1	3375.9	3455.0	3545.5	3573.6	3545.5	3526.8	3421.7
22.5°	3374.8	3365.5	3359.2	3405.0	3490.4	3600.7	3728.6	3780.7	3776.5	3757.8	3694.3
25°	3551.7	3531.0	3486.2	3543.5	3648.5	3777.6	3927.5	4014.8	4022.1	4027.3	4073.1
27.5°	3832.7	3831.6	3755.8	3759.9	3831.6	3981.5	4164.7	4315.6	4336.4	4394.7	4551.8
30°	4398.8	4341.6	4254.2	4114.7	4090.8	4232.3	4450.8	4681.9	4741.3	4919.2	5109.6
32.5°	4928.5	4885.8	4824.5	4663.1	4466.5	4518.5	4767.2	5109.6	5265.7	5620.5	5794.4
35°	5383.3	5361.4	5315.6	5219.9	5041.9	4907.8	5111.7	5585.1	5914.0	6434.3	6586.3
37.5°	5827.6	5811.0	5780.8	5696.5	5585.1	5384.3	5512.3	6146.0	6681.0	7290.8	7368.8
40°	6217.9	6212.7	6238.7	6186.6	6137.8	6012.9	5975.4	6738.2	7482.3	8125.4	8106.6
42.5°	6559.2	6550.9	6677.9	6609.2	6667.4	6619.6	6541.5	7291.8	8208.6	8810.2	8746.7
45°	6787.2	6782.9	6917.2	6985.9	7150.3	7185.7	7138.9	7866.3	8870.5	9437.7	9298.2
47.5°	6960.9	6949.4	7023.3	7287.7	7591.5	7663.4	7753.9	8507.3	9492.8	9992.3	9823.8
50°	7055.6	7059.8	7211.7	7568.6	8018.2	8183.7	8374.2	9269.0	10125.5	10586.5	10307.6
52.5°	7117.0	7161.7	7385.5	7815.3	8429.3	8719.6	8938.1	10092.3	10842.6	11147.5	10849.9
55°	7160.7	7239.9	7463.6	7948.5	8686.3	9167.1	9486.5	10960.1	11658.4	11851.0	11424.2
57.5°	6878.8	6963.0	7339.7	7972.5	8898.6	9544.8	10115.2	11889.4	12612.7	12630.4	11958.1
60°	6417.7	6469.7	6951.6	7825.7	8868.4	9892.5	10886.2	12990.5	13676.2	13666.9	12617.9
62.5°	5941.1	5968.1	6457.2	7438.6	8697.8	10020.4	11621.0	14470.3	15059.3	14781.4	13290.2
65°	5311.5	5341.7	5846.4	6799.6	8223.2	9934.0	12249.5	16021.9	16728.5	16285.2	13940.5
67.5°	4491.4	4548.7	5014.9	5900.5	7451.1	9478.3	12728.2	17085.4	17540.2	17152.0	14396.4
70°	3502.9	3553.8	3970.1	4804.7	6337.6	8548.9	12950.9	17460.1	17730.6	17374.7	14473.4
72.5°	2494.5	2531.9	2716.1	3414.4	4806.8	7144.0	12739.7	17280.0	17420.5	16976.1	13950.9
75°	1899.2	1869.0	1978.3	2242.6	2811.8	5020.1	11454.4	16466.2	16609.8	16119.7	12932.2
77.5°	1374.7	1350.7	1481.8	1686.9	1961.7	2360.2	8051.5	14794.9	14980.2	14579.6	11202.6
80°	808.6	842.9	1016.8	1211.4	1429.8	1572.5	3796.2	11052.7	11868.7	11705.2	8167.1
82.5°	154.0	166.5	422.5	642.1	787.8	833.6	1437.1	6079.5	6968.2	7146.2	4314.5
85°	100.9	109.3	252.9	258.1	251.8	322.6	580.7	2929.5	3761.9	3804.6	1895.0
87.5°	46.8	52.0	77.1	111.4	141.5	169.6	191.5	786.8	1162.4	1189.4	374.7
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°	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6	2525.6
2.5°	2511.1	2500.7	2478.8	2460.1	2447.6	2440.3	2398.7	2391.5	2375.8	2364.3	2359.1
5°	2548.5	2528.8	2475.7	2439.3	2392.4	2353.9	2284.2	2248.9	2228.0	2206.2	2201.0
7.5°	2612.0	2579.8	2496.5	2431.0	2350.9	2281.1	2183.3	2127.1	2087.6	2056.3	2053.2
10°	2701.6	2650.5	2530.8	2435.1	2319.6	2223.9	2102.1	2011.6	1956.5	1915.9	1913.8
12.5°	2812.9	2743.1	2595.4	2468.4	2319.6	2187.4	2042.9	1922.1	1840.9	1785.7	1779.5
15°	2952.4	2869.0	2702.5	2546.5	2370.6	2202.0	2002.3	1839.9	1721.3	1632.8	1628.6
17.5°	3126.1	3039.8	2877.4	2701.6	2467.3	2224.9	1972.0	1743.1	1571.4	1466.3	1454.8
20°	3345.7	3305.1	3138.6	2881.6	2567.3	2236.4	1904.4	1608.8	1375.8	1240.5	1222.8
22.5°	3659.9	3637.0	3398.8	3035.6	2624.5	2201.0	1793.0	1394.5	1111.4	965.7	952.2
25°	4053.4	3974.2	3631.9	3150.0	2634.9	2123.0	1604.7	1120.7	804.5	659.8	654.6
27.5°	4463.3	4319.7	3833.8	3230.2	2604.7	1965.8	1340.3	797.2	501.5	409.0	410.0
30°	4980.6	4707.9	4062.7	3306.1	2535.1	1752.4	993.9	496.4	315.3	259.1	251.8
32.5°	5576.9	5199.1	4291.6	3336.4	2404.9	1450.7	630.6	304.9	197.7	168.6	165.5
35°	6273.0	5806.9	4586.2	3339.4	2190.6	1078.1	377.7	179.0	134.3	135.2	137.4
37.5°	6999.5	6451.0	4945.2	3302.0	1923.1	674.3	213.4	115.5	115.5	137.4	144.7
40°	7657.1	7067.1	5326.1	3217.6	1546.4	392.4	120.7	99.9	106.1	129.0	135.2
42.5°	8260.6	7599.9	5674.7	3086.5	1104.1	212.3	104.1	90.5	95.7	106.1	109.3
45°	8783.1	8063.0	5925.5	2875.3	670.2	131.1	95.7	82.2	81.2	88.5	90.5
47.5°	9233.7	8477.2	6095.1	2573.5	350.7	124.9	92.6	74.9	69.7	72.8	73.9
50°	9695.8	8784.1	6158.5	2150.0	180.1	117.5	86.4	69.7	64.5	73.9	74.9
52.5°	10163.0	9245.2	6166.9	1557.8	142.6	106.1	79.1	64.5	62.4	82.2	85.3
55°	10617.8	9581.3	6047.3	902.3	138.4	98.9	71.8	58.3	60.3	62.4	62.4
57.5°	11097.5	9984.0	5795.4	394.4	134.3	90.5	66.6	53.1	44.7	49.9	52.0
60°	11611.6	10331.6	5288.6	227.9	128.0	81.2	57.2	43.7	37.4	37.4	40.6
62.5°	12130.9	10586.5	4459.2	166.5	121.8	76.0	49.9	38.5	31.3	31.3	33.3
65°	12468.0	10416.9	3439.4	147.8	117.5	68.7	43.7	33.3	25.0	24.0	26.0
67.5°	12406.7	9767.5	2422.6	132.2	107.2	62.4	38.5	29.1	21.8	17.7	18.8
70°	11897.8	8706.1	1343.5	123.8	95.7	57.2	34.3	26.0	17.7	11.4	11.4
72.5°	10960.1	7315.7	516.2	111.4	85.3	49.9	31.3	25.0	15.6	6.3	5.2
75°	9560.5	5567.4	186.2	93.7	70.8	45.8	30.2	26.0	14.5	2.1	0.0
77.5°	7495.8	3115.7	110.3	69.7	53.1	39.5	32.2	26.0	8.4	0.0	0.0
80°	4026.2	1125.0	78.0	44.7	35.4	29.1	29.1	20.8	4.1	0.0	0.0
82.5°	1671.3	252.9	49.9	25.0	24.0	18.8	18.8	9.3	1.1	0.0	0.0
85°	473.5	73.9	22.9	13.6	13.6	10.4	5.2	0.0	0.0	0.0	0.0
87.5°	40.6	15.6	6.3	7.3	5.2	2.1	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)