

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: P509852

Luminaire Tested: **VERD-M-CA3-150-750-U-T2-HSS**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P509852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-M-CA3-150-750-U-T2-HSS  
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 940mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20619 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

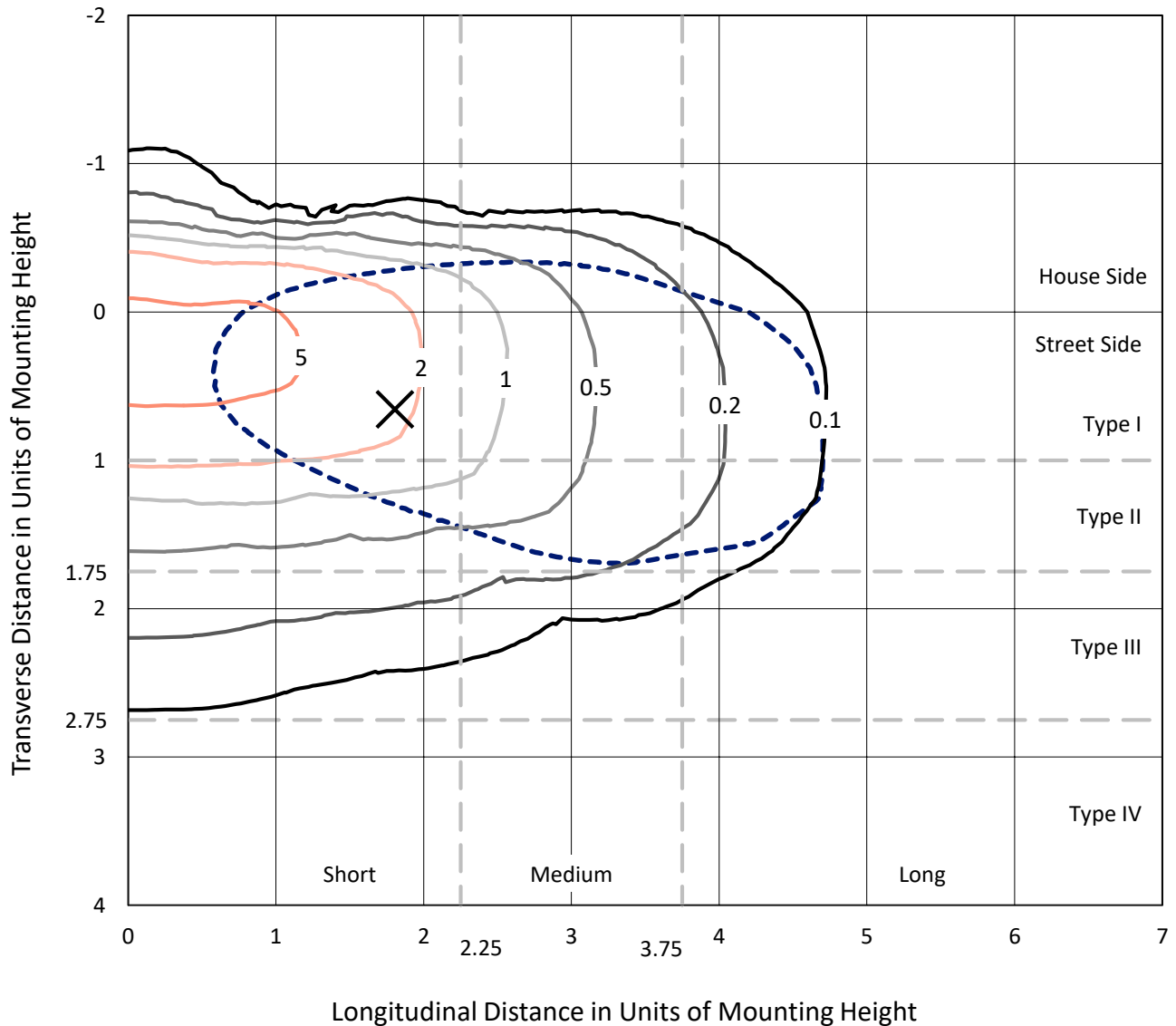
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

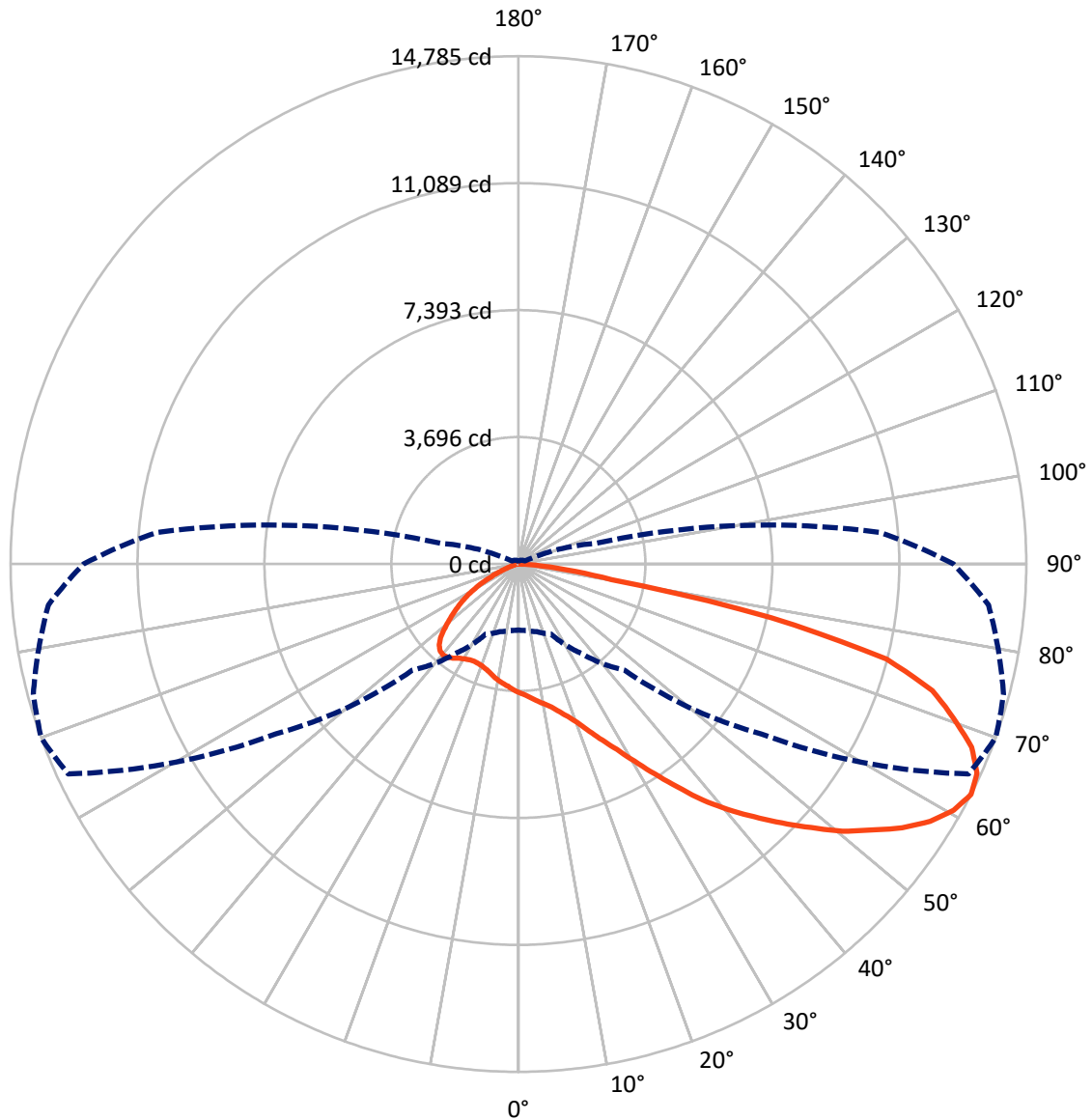
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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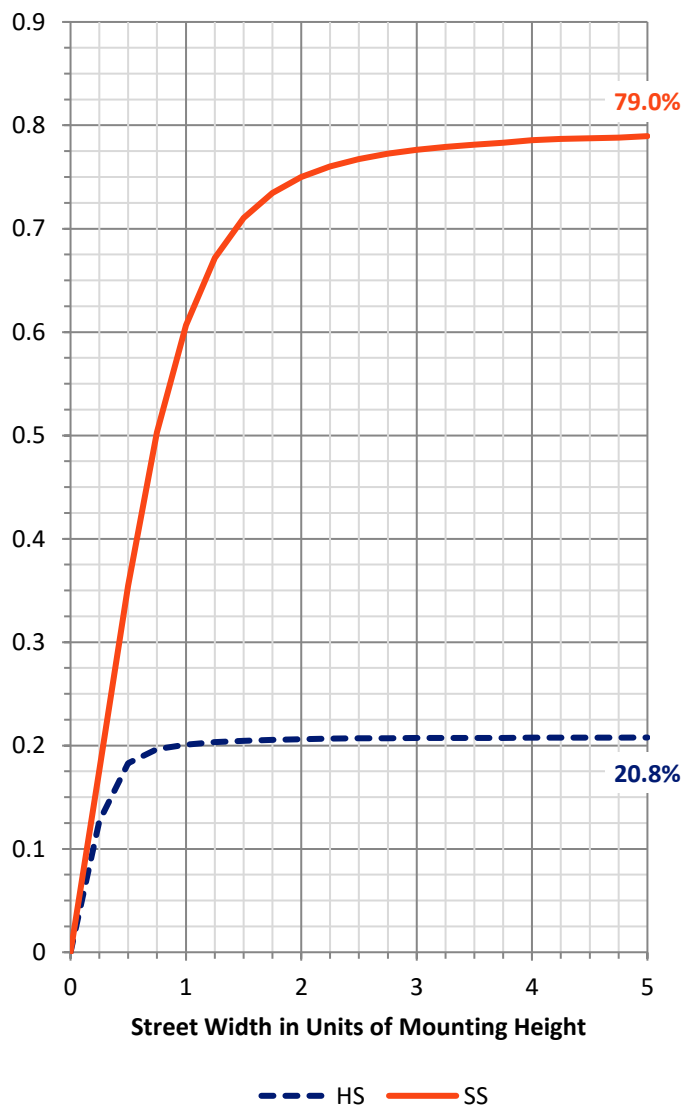
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4336.0	0.0	4336.0
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	16283.0	0.0	16283.0
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	20619.0	0.0	20619.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	355.9	1.7
10°-20°	1062.1	5.2
20°-30°	1800.5	8.7
30°-40°	2647.8	12.8
40°-50°	3526.1	17.1
50°-60°	4124.8	20.0
60°-70°	4148.5	20.1
70°-80°	2626.1	12.7
80°-90°	327.2	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°	20619.0	100.0
0°-180°	20619.0	100.0



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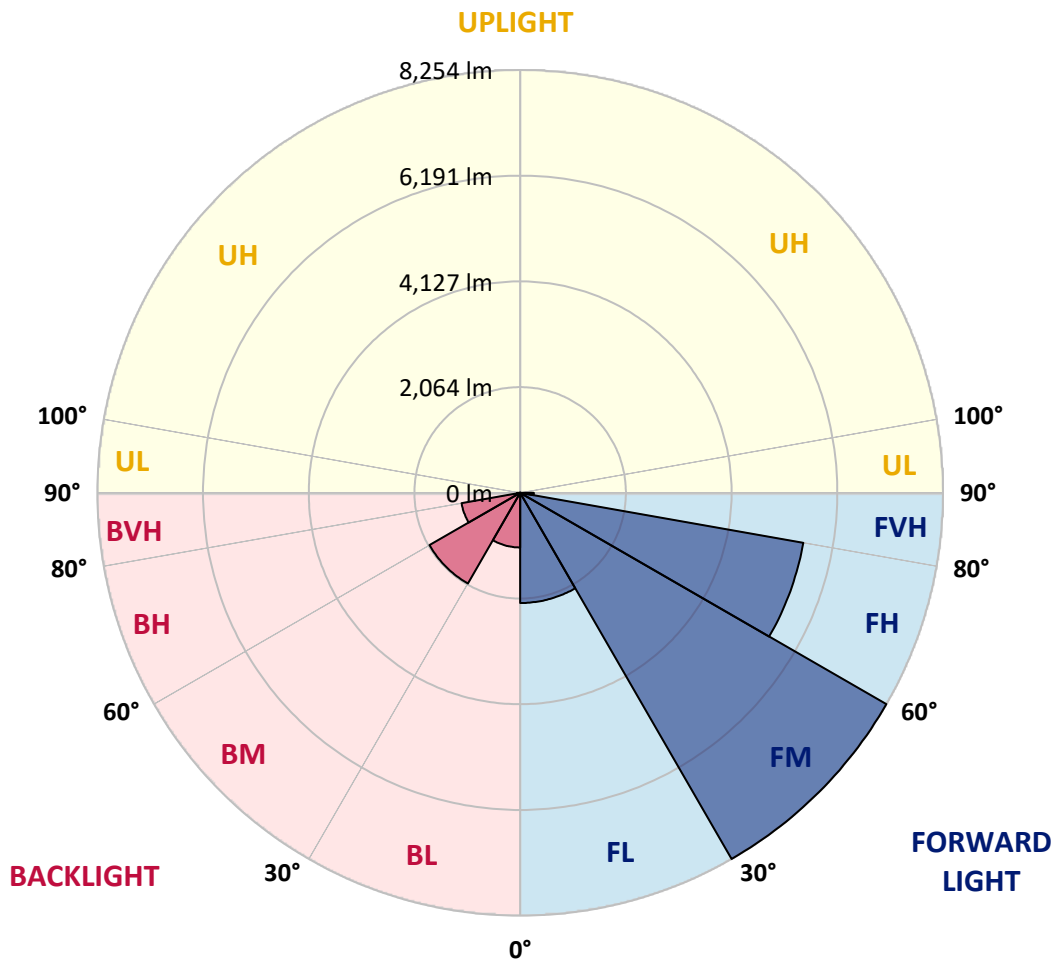
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2151.0	10.4			
FM (30°-60°)	8254.2	40.0			
FH (60°-80°)	5612.5	27.2			G3/7500
FVH (80°-90°)	265.3	1.3			G3/500
BL (0°-30°)	1067.5	5.2	B3/2500		
BM (30°-60°)	2044.5	9.9	B2/2500		
BH (60°-80°)	1162.1	5.6	B3/2500		G3/2500
BVH (80°-90°)	61.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5
2.5°	3954.2	3988.8	3962.3	3952.2	3960.3	3919.6	3887.0	3840.1	3817.7	3801.4	3775.0
5°	4154.8	4211.8	4177.2	4155.8	4152.8	4078.4	4034.6	3970.5	3920.6	3876.8	3809.6
7.5°	4366.6	4400.2	4387.0	4362.5	4346.2	4255.6	4178.2	4087.6	4032.6	3974.6	3861.5
10°	4552.0	4592.7	4579.4	4535.7	4520.4	4427.7	4339.1	4215.9	4140.5	4068.2	3912.4
12.5°	4743.4	4789.2	4761.7	4717.9	4704.7	4611.0	4519.4	4369.7	4276.0	4194.5	3978.6
15°	4919.6	4961.3	4942.0	4892.1	4878.8	4799.4	4698.6	4559.1	4457.2	4349.3	4072.3
17.5°	5060.1	5101.9	5077.4	5054.0	5049.9	4971.5	4911.4	4768.9	4672.1	4525.5	4215.9
20°	5163.0	5205.7	5193.5	5204.7	5247.5	5189.4	5152.8	5032.6	4933.8	4775.0	4422.6
22.5°	5244.4	5299.4	5348.3	5370.7	5450.1	5446.0	5437.9	5366.6	5289.2	5124.3	4669.1
25°	5252.6	5315.7	5412.4	5517.3	5661.9	5731.2	5782.1	5770.9	5680.3	5517.3	5010.2
27.5°	5264.8	5330.0	5429.8	5610.0	5868.7	6030.6	6115.1	6167.0	6114.1	6005.1	5398.2
30°	5238.3	5305.5	5430.8	5660.9	6010.2	6310.6	6461.3	6653.8	6659.9	6568.3	5983.7
32.5°	5118.1	5206.7	5358.5	5667.0	6147.7	6602.9	6835.1	7204.7	7285.2	7216.9	6587.6
35°	4917.5	4998.0	5214.9	5613.1	6231.2	6846.3	7270.9	7847.3	7966.4	7962.4	7298.4
37.5°	4695.5	4777.0	5021.4	5485.8	6285.2	7063.2	7654.8	8484.8	8722.0	8672.1	7969.5
40°	4450.1	4535.7	4817.7	5325.9	6258.7	7256.6	8061.1	9102.9	9397.2	9403.3	8611.0
42.5°	4165.0	4235.3	4518.3	5104.9	6171.1	7399.2	8438.9	9753.6	10063.2	10045.9	9215.9
45°	3892.1	3965.4	4212.8	4762.7	5968.5	7478.6	8809.6	10412.5	10751.6	10696.6	9888.0
47.5°	3562.1	3667.0	3949.1	4475.6	5655.8	7472.5	9133.4	11086.6	11467.5	11422.7	10468.5
50°	2741.4	2803.5	3442.0	4179.2	5232.2	7330.0	9450.1	11748.5	12230.2	12142.6	11087.6
52.5°	2469.5	2525.5	2731.2	3823.8	4847.3	7021.4	9713.9	12506.2	12866.6	12798.4	11720.0
55°	2334.0	2364.6	2489.8	3153.8	4471.5	6520.4	9890.1	13179.3	13554.0	13403.3	12311.7
57.5°	2164.0	2201.6	2347.3	2693.5	4009.2	5751.5	9849.3	13786.2	14132.4	13901.3	12833.0
60°	2033.6	2062.1	2198.6	2424.7	3531.6	4955.2	9432.8	14381.9	14556.1	14328.0	13352.4
62.5°	1923.6	1939.9	2035.6	2250.5	3168.0	4373.7	8620.2	14461.4	14785.2	14620.2	13739.4
65°	1787.2	1791.2	1904.3	2072.3	2832.0	4024.5	7922.6	14054.0	14671.1	14616.1	13878.9
67.5°	1627.3	1635.4	1749.5	1877.8	2427.7	3652.8	6836.1	13835.1	14228.2	14193.5	13602.9
70°	1426.7	1443.0	1547.9	1645.6	2056.0	3206.7	5441.0	12969.5	13435.9	13385.0	12693.5
72.5°	1233.2	1224.0	1321.8	1418.5	1712.8	2677.2	4124.3	11479.7	12602.9	12554.0	11512.3
75°	1013.2	1007.1	1107.9	1199.6	1404.3	2162.9	2901.2	8489.8	11073.4	11224.1	9926.7
77.5°	624.2	629.3	687.4	748.5	951.1	1616.1	1851.3	4723.0	7522.4	8920.6	7790.3
80°	452.1	452.1	494.9	531.6	629.3	984.7	921.6	1969.5	2749.5	4305.5	4858.5
82.5°	293.3	281.1	307.5	339.1	350.3	426.7	421.6	987.8	1401.2	1686.4	2023.4
85°	152.8	169.0	101.8	143.6	151.7	141.5	145.6	463.3	622.2	797.4	877.8
87.5°	23.4	18.3	24.4	33.6	38.7	32.6	28.5	54.0	83.5	111.0	131.4
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°	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5	3748.5
2.5°	3757.7	3752.6	3705.7	3637.5	3581.5	3534.6	3504.1	3483.7	3506.1	3465.4	3460.3
5°	3767.8	3733.2	3631.4	3533.6	3458.3	3357.4	3289.2	3243.4	3261.7	3226.1	3211.8
7.5°	3795.3	3732.2	3591.7	3435.9	3293.3	3185.3	3080.5	2979.6	2964.4	2942.0	2943.0
10°	3819.8	3729.1	3545.8	3342.2	3176.2	2985.8	2859.5	2755.6	2732.2	2705.7	2692.5
12.5°	3858.5	3736.3	3488.8	3242.4	3020.4	2800.4	2664.0	2541.8	2518.3	2466.4	2455.2
15°	3935.9	3761.7	3432.8	3119.2	2845.2	2623.2	2447.1	2340.1	2297.4	2239.3	2238.3
17.5°	4036.7	3836.1	3404.3	3003.1	2696.5	2448.1	2261.7	2153.8	2081.5	2046.9	2037.7
20°	4180.3	3932.8	3403.3	2898.2	2541.8	2260.7	2046.9	1924.7	1863.6	1835.0	1817.7
22.5°	4401.2	4075.4	3421.6	2824.9	2386.0	2079.4	1866.6	1698.6	1597.8	1519.4	1530.6
25°	4676.2	4289.2	3463.4	2757.6	2250.5	1906.3	1639.5	1406.3	1226.1	1147.7	1153.8
27.5°	5025.5	4544.8	3571.3	2689.4	2096.7	1720.0	1343.2	1046.8	910.4	818.7	825.9
30°	5472.5	4862.5	3712.8	2636.5	1954.2	1459.3	1011.2	771.9	651.7	576.4	569.2
32.5°	6007.2	5322.8	3867.6	2600.8	1798.4	1133.4	729.1	566.2	449.1	406.3	412.4
35°	6669.1	5840.1	4103.9	2548.9	1531.6	806.5	520.4	382.9	322.8	314.7	315.7
37.5°	7272.9	6369.7	4338.1	2461.3	1208.8	573.3	353.4	291.2	278.0	275.0	279.0
40°	7864.6	6852.4	4549.9	2334.0	831.0	393.1	259.7	262.7	251.5	243.4	239.3
42.5°	8418.6	7317.7	4715.9	2099.8	568.2	259.7	230.1	239.3	237.3	221.0	213.9
45°	9016.3	7809.6	4807.6	1771.9	357.4	221.0	206.7	223.0	233.2	214.9	206.7
47.5°	9526.5	8289.2	4803.5	1357.4	242.4	208.8	194.5	208.8	221.0	207.7	200.6
50°	10115.1	8686.4	4673.1	861.5	214.9	193.5	186.4	191.4	207.7	198.6	191.4
52.5°	10768.9	9230.2	4475.6	480.7	203.7	183.3	173.1	179.2	193.5	182.3	186.4
55°	11310.6	9681.3	4011.2	327.9	198.6	171.1	165.0	169.0	175.2	164.0	170.1
57.5°	11794.3	10054.0	3541.8	268.8	191.4	162.9	161.9	153.8	152.8	145.6	139.5
60°	12284.2	10348.3	2908.4	243.4	184.3	164.0	146.6	135.4	126.3	119.1	116.1
62.5°	12659.9	10552.0	2300.4	220.0	174.1	153.8	134.4	116.1	100.8	91.7	91.7
65°	12769.9	10461.3	1619.2	199.6	162.9	144.6	120.2	94.7	76.4	70.3	67.2
67.5°	12417.6	9941.0	1127.3	184.3	151.7	134.4	105.9	77.4	61.1	53.0	50.9
70°	11520.4	9070.3	665.0	162.9	137.5	117.1	96.7	63.1	49.9	41.8	39.7
72.5°	10194.5	7764.8	414.5	138.5	118.1	95.7	72.3	51.9	39.7	32.6	31.6
75°	8420.6	6053.0	270.9	106.9	93.7	75.4	55.0	41.8	34.6	27.5	25.5
77.5°	6752.6	4282.1	242.4	81.5	69.2	54.0	41.8	34.6	28.5	24.4	24.4
80°	3886.0	2444.0	198.6	56.0	42.8	40.7	32.6	28.5	26.5	23.4	22.4
82.5°	1909.4	1174.1	128.3	34.6	24.4	26.5	27.5	25.5	22.4	20.4	20.4
85°	657.8	391.0	51.9	22.4	16.3	16.3	17.3	18.3	17.3	16.3	16.3
87.5°	101.8	74.3	14.3	13.2	10.2	9.2	10.2	11.2	11.2	10.2	10.2
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)