

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: P510293

Luminaire Tested: **VERD-M-CA4-240-760-U-T2**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-181-2)
Test Lab: INNOVATION CENTER
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-M-CA4-240-760-U-T2
Description: VERDEON-M ROADWAY AND AREA LUMINAIRE
(4) 70 CRI, 5700K, 1090mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33332 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.35' x L: 1.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

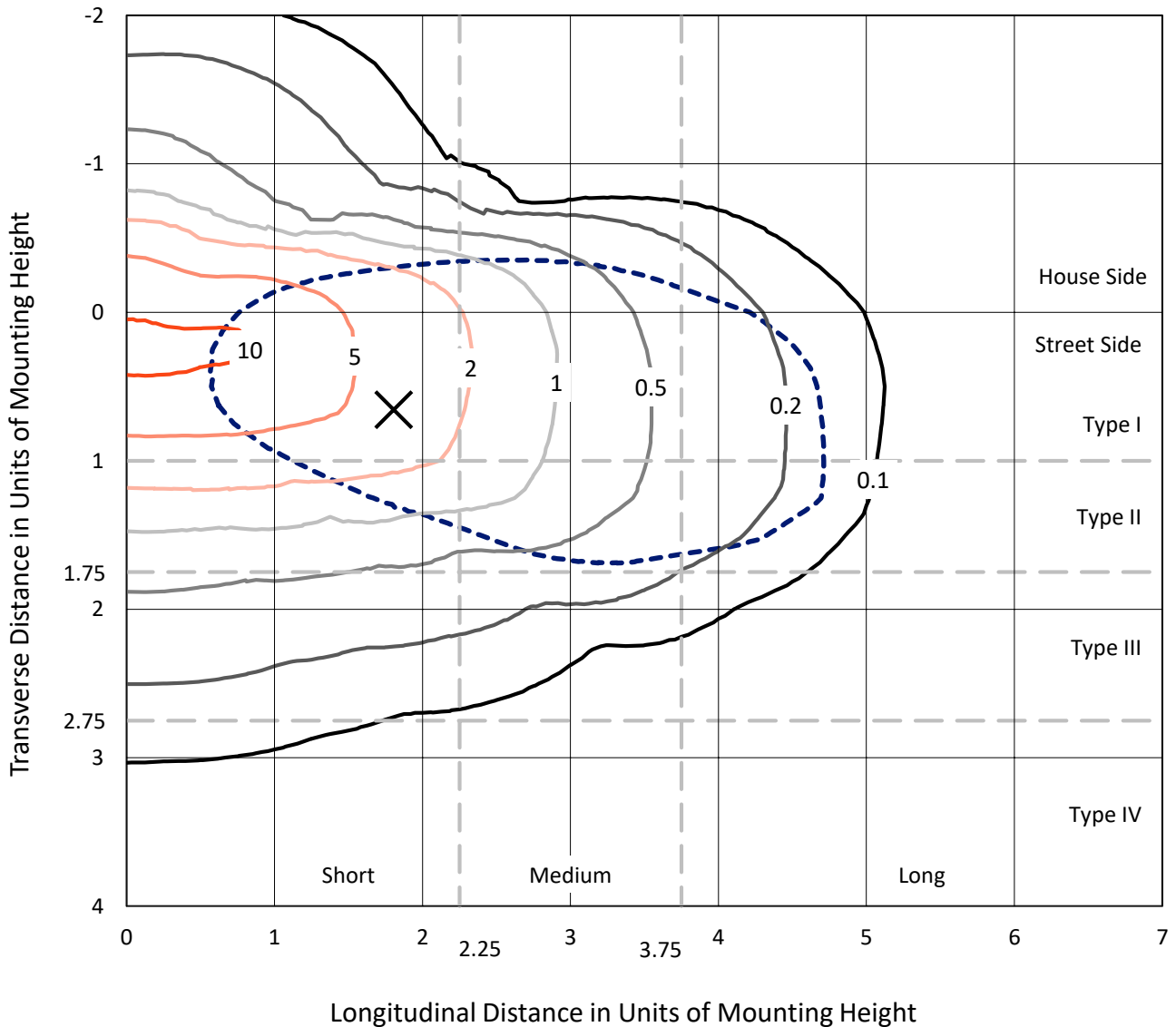
Input Watts (W): 242.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P510293
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Iso-Footcandle Lines of Horizontal Illumination

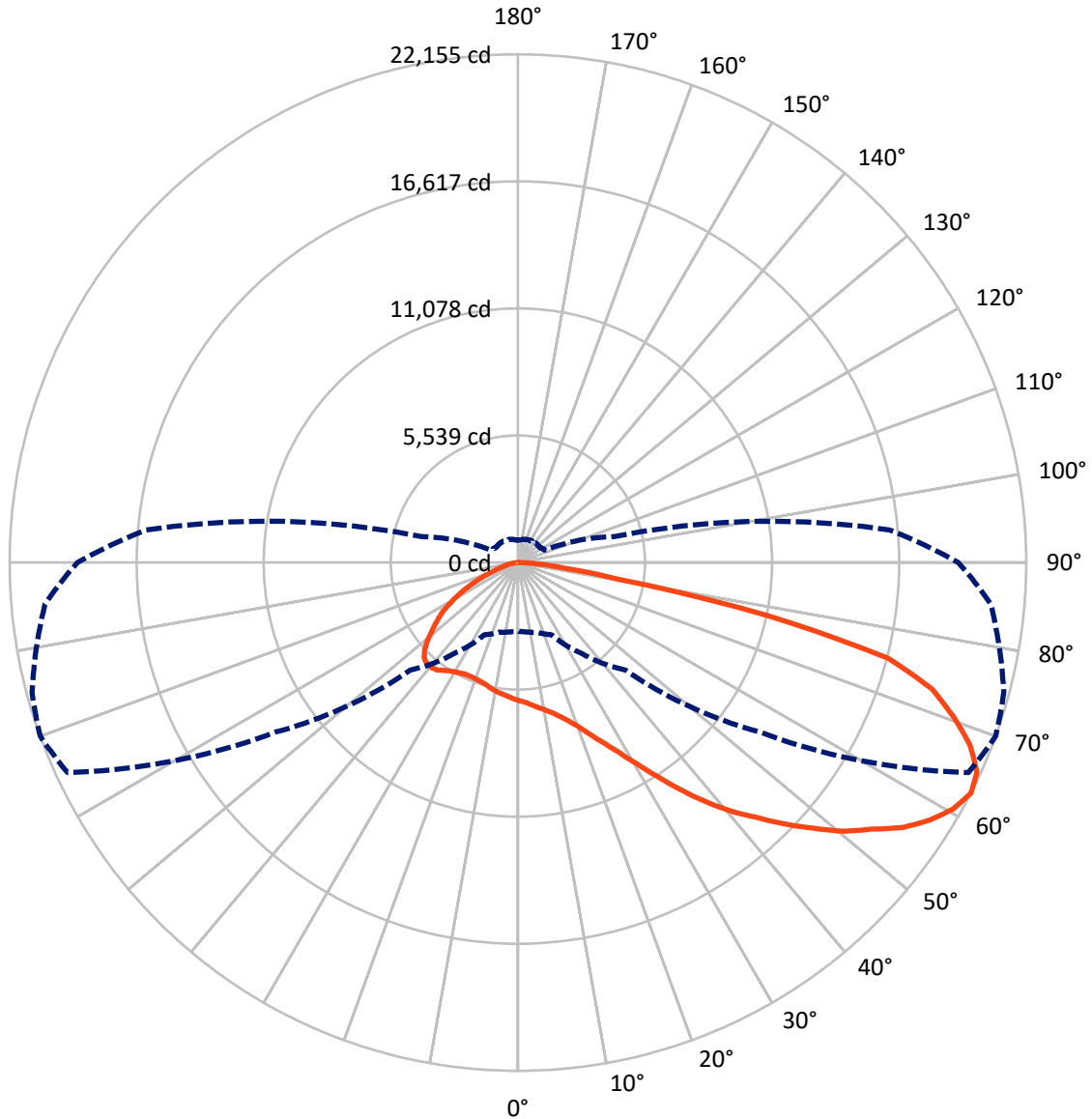
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - N/A

REPORT NUMBER: P510293
CATALOG NUMBER: VERD-M-CA4-240-760-U-T2

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
House Side	Lumens	8629.8	0.0	8629.8
	% Fixture	25.9	0.0	25.9
Street Side	Lumens	24702.2	0.0	24702.2
	% Fixture	74.1	0.0	74.1
Total	Lumens	33332.0	0.0	33332.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	577.8	1.7
10°-20°	1754.8	5.3
20°-30°	2978.2	8.9
30°-40°	4309.2	12.9
40°-50°	5654.7	17.0
50°-60°	6607.4	19.8
60°-70°	6630.8	19.9
70°-80°	4225.2	12.7
80°-90°	593.8	1.8
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°	33332.0	100.0
0°-180°	33332.0	100.0

Coefficient of Utilization



REPORT NUMBER: P510293

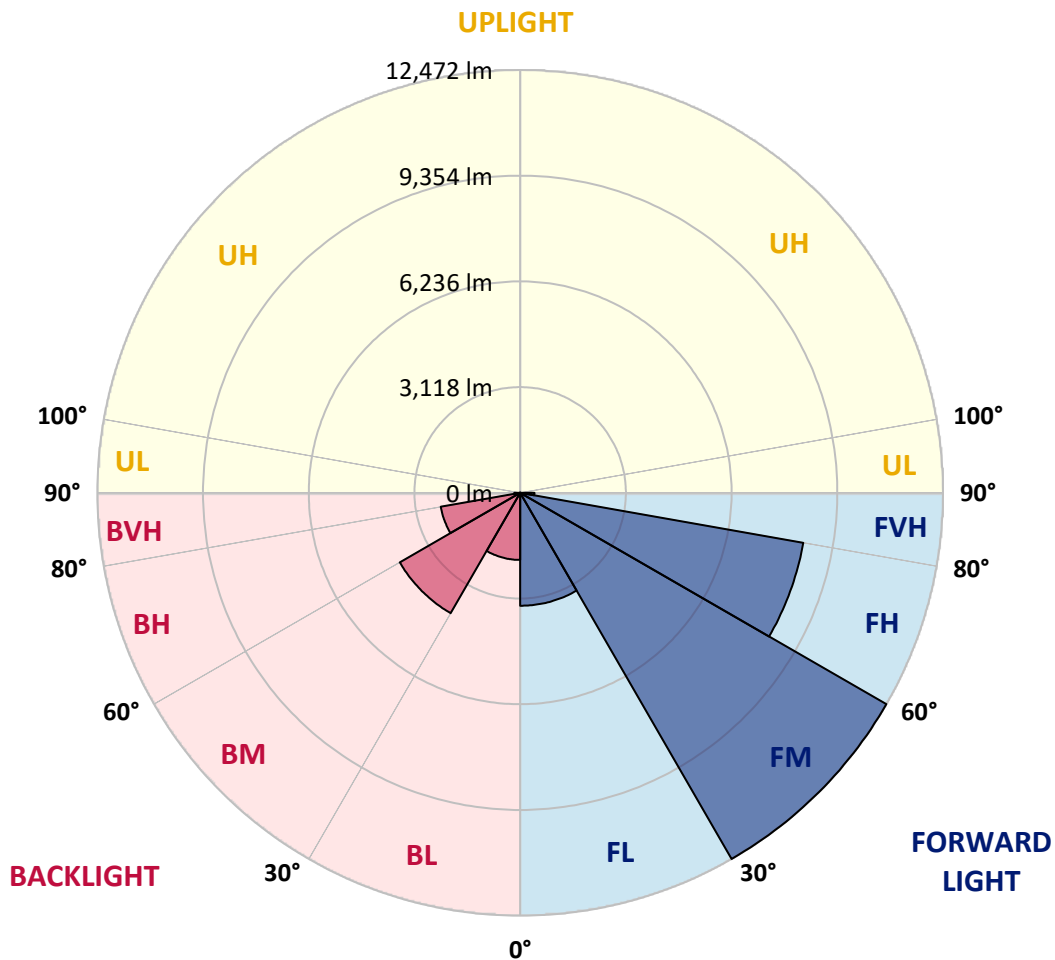
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3331.5	10.0			
FM (30°-60°)	12472.5	37.4			
FH (60°-80°)	8479.3	25.4			G4/12000
FVH (80°-90°)	418.8	1.3			G3/500
BL (0°-30°)	1979.2	5.9	B3/2500		
BM (30°-60°)	4098.9	12.3	B3/5000		
BH (60°-80°)	2376.7	7.1	B3/2500		G3/2500
BVH (80°-90°)	174.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





REPORT NUMBER: P510293

CATALOG NUMBER: VERD-M-CA4-240-760-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0
2.5°	6246.4	6312.7	6303.7	6263.0	6291.6	6213.3	6184.7	6141.0	6095.8	6080.7	6055.1
5°	6541.6	6629.0	6612.4	6558.2	6556.7	6445.2	6382.0	6299.1	6229.9	6175.6	6095.8
7.5°	6817.3	6918.2	6903.1	6850.4	6847.4	6719.4	6588.3	6458.8	6379.0	6309.7	6163.6
10°	7109.5	7186.3	7172.8	7105.0	7091.4	6966.4	6812.8	6650.1	6532.6	6436.2	6228.3
12.5°	7379.1	7460.5	7466.5	7382.1	7361.0	7227.0	7092.9	6877.5	6725.4	6615.5	6309.7
15°	7630.7	7727.1	7709.0	7624.6	7602.0	7466.5	7335.4	7136.6	6978.5	6824.8	6442.2
17.5°	7832.5	7924.4	7901.8	7864.1	7852.1	7746.6	7638.2	7422.8	7282.7	7085.4	6647.1
20°	7971.1	8056.9	8066.0	8055.4	8124.7	8025.3	7965.1	7812.9	7659.3	7481.5	6927.2
22.5°	8025.3	8127.7	8215.1	8282.9	8426.0	8410.9	8400.4	8313.0	8162.4	7903.3	7297.8
25°	8041.9	8144.3	8279.9	8447.1	8703.1	8795.0	8861.3	8882.4	8718.2	8513.3	7758.7
27.5°	8044.9	8154.8	8293.4	8563.0	8953.2	9230.3	9388.5	9462.3	9370.4	9207.7	8385.3
30°	7981.6	8094.6	8272.3	8632.3	9149.0	9603.9	9865.9	10192.8	10153.6	10016.6	9170.1
32.5°	7799.4	7901.8	8147.3	8620.3	9343.3	9986.4	10394.6	10961.0	11093.5	11004.7	10075.3
35°	7472.5	7597.5	7915.3	8520.9	9448.7	10358.5	11016.7	11897.9	12137.4	12143.4	11185.4
37.5°	7142.6	7237.5	7611.1	8334.1	9507.5	10688.4	11607.2	12836.3	13184.2	13191.7	12108.8
40°	6791.7	6879.0	7290.3	8084.0	9447.2	10947.4	12157.0	13738.5	14237.1	14190.4	13015.5
42.5°	6336.8	6433.2	6841.4	7743.6	9296.6	11147.8	12715.8	14685.9	15164.9	15217.7	13961.4
45°	5948.2	6025.0	6382.0	7211.9	9020.9	11256.2	13239.9	15696.6	16244.9	16189.2	14970.6
47.5°	5469.2	5583.7	5964.8	6779.6	8525.4	11229.1	13741.5	16696.8	17306.8	17255.6	15845.8
50°	4219.0	4351.6	5237.2	6326.3	7892.8	11016.7	14196.4	17653.3	18410.9	18276.8	16772.1
52.5°	3831.9	3869.6	4222.0	5805.1	7269.2	10534.7	14530.8	18861.3	19310.1	19257.4	17710.5
55°	3595.4	3667.7	3828.9	4782.3	6708.8	9751.5	14762.8	19870.5	20376.6	20129.5	18560.0
57.5°	3387.6	3438.8	3630.1	4094.0	6064.2	8673.0	14695.0	20721.5	21173.4	20828.4	19390.0
60°	3166.1	3199.3	3390.6	3737.0	5368.3	7481.5	14006.6	21599.6	21800.0	21483.7	20091.9
62.5°	2994.4	3026.1	3140.5	3473.4	4826.0	6629.0	12880.0	21661.4	22155.4	21925.0	20688.4
65°	2774.5	2795.6	2938.7	3200.8	4322.9	6121.4	11887.3	21081.5	21983.7	21926.5	20917.3
67.5°	2532.0	2557.6	2693.2	2878.4	3679.8	5523.4	10227.4	20768.2	21257.7	21313.4	20488.0
70°	2247.3	2265.4	2405.5	2539.5	3148.1	4848.6	8130.7	19567.7	20138.6	20137.1	19162.5
72.5°	1940.1	1938.5	2077.1	2218.7	2637.4	4072.9	6365.4	17373.1	18883.9	18770.9	17276.7
75°	1599.6	1622.2	1756.3	1867.8	2194.6	3301.7	4432.9	12584.7	16671.2	16826.3	14910.4
77.5°	1022.7	1037.8	1113.1	1227.6	1534.9	2523.0	2892.0	6993.5	11131.2	13426.7	11736.7
80°	747.1	754.6	820.9	887.2	1021.2	1536.4	1470.1	3039.6	4411.8	6591.4	7199.9
82.5°	509.1	510.6	563.3	578.4	585.9	692.9	697.4	1479.1	2101.2	2474.8	3179.7
85°	337.4	280.2	218.4	289.2	296.7	254.6	248.5	667.3	1042.3	1250.2	1177.9
87.5°	75.3	73.8	85.9	87.4	84.4	72.3	60.3	102.4	156.7	155.1	198.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P510293

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0	6016.0
2.5°	6031.0	6023.5	5981.3	5892.5	5832.2	5770.4	5735.8	5714.7	5722.2	5687.6	5672.5
5°	6046.1	6008.4	5889.4	5784.0	5689.1	5582.2	5493.3	5481.2	5499.3	5467.7	5449.6
7.5°	6085.3	6005.4	5853.3	5672.5	5514.4	5413.5	5285.4	5220.7	5216.1	5184.5	5190.5
10°	6107.8	6003.9	5800.6	5582.2	5396.9	5217.7	5080.6	5008.3	5003.8	4958.6	4948.0
12.5°	6169.6	6020.5	5738.8	5472.2	5265.9	5026.4	4881.8	4815.5	4808.0	4744.7	4720.6
15°	6264.5	6058.1	5674.0	5344.2	5077.6	4853.1	4679.9	4591.1	4577.5	4503.7	4478.1
17.5°	6415.1	6165.1	5654.5	5228.2	4913.4	4667.9	4464.5	4368.1	4289.8	4249.1	4214.5
20°	6618.5	6297.6	5677.1	5119.7	4707.0	4423.9	4170.8	4044.3	3990.1	3923.8	3928.3
22.5°	6907.7	6505.5	5716.2	5035.4	4520.3	4163.3	3878.6	3737.0	3639.1	3583.4	3586.4
25°	7314.4	6818.8	5793.0	4955.6	4316.9	3878.6	3542.7	3345.4	3246.0	3209.8	3172.2
27.5°	7828.0	7193.9	5975.3	4857.7	4075.9	3556.3	3184.2	2953.8	2852.8	2798.6	2791.1
30°	8487.7	7686.4	6189.2	4785.4	3822.9	3154.1	2739.9	2557.6	2468.7	2391.9	2355.8
32.5°	9292.1	8382.3	6427.2	4713.1	3509.6	2703.7	2328.7	2188.6	2047.0	1949.1	1953.6
35°	10225.9	9139.9	6781.1	4621.2	3142.0	2283.5	2024.4	1843.7	1711.1	1646.3	1616.2
37.5°	11107.1	9917.2	7196.9	4527.8	2730.8	2010.8	1724.7	1557.5	1455.0	1405.3	1415.9
40°	11998.8	10718.5	7555.4	4298.8	2269.9	1763.8	1427.9	1333.0	1292.4	1253.2	1257.7
42.5°	12797.1	11357.1	7817.4	4044.3	1947.6	1480.6	1217.1	1238.1	1262.2	1239.6	1233.6
45°	13628.6	12104.2	8047.9	3610.5	1678.0	1257.7	1164.3	1223.1	1275.8	1272.8	1265.3
47.5°	14463.0	12797.1	8070.5	3035.1	1432.4	1182.4	1162.8	1206.5	1275.8	1287.8	1278.8
50°	15323.1	13523.1	7937.9	2357.3	1328.5	1191.4	1164.3	1171.9	1248.7	1262.2	1257.7
52.5°	16276.5	14307.9	7611.1	1792.4	1287.8	1206.5	1168.9	1158.3	1202.0	1226.1	1230.6
55°	17153.2	14931.5	6998.0	1583.1	1257.7	1208.0	1202.0	1167.3	1168.9	1156.8	1186.9
57.5°	17889.7	15526.4	6302.2	1468.6	1230.6	1194.5	1217.1	1152.3	1134.2	1084.5	1072.5
60°	18651.9	16009.9	5323.1	1390.3	1199.0	1177.9	1179.4	1126.7	1081.5	1009.2	988.1
62.5°	19192.6	16266.0	4372.6	1298.4	1155.3	1152.3	1129.7	1090.5	1049.9	986.6	977.6
65°	19349.3	16130.4	3358.9	1202.0	1098.1	1110.1	1069.4	1015.2	846.5	768.2	768.2
67.5°	18831.1	15296.0	2486.8	1090.5	1028.8	1052.9	973.0	799.8	712.5	665.8	673.3
70°	17410.8	13947.9	1619.2	927.9	929.4	948.9	802.8	720.0	637.1	608.5	623.6
72.5°	15512.9	11949.1	1067.9	739.6	783.3	750.1	733.5	662.8	588.9	555.8	566.4
75°	12783.6	9435.2	741.1	581.4	507.6	640.2	652.2	557.3	500.1	607.0	631.1
77.5°	10099.4	6558.2	611.5	406.7	375.1	473.0	522.7	516.6	826.9	971.5	961.0
80°	6005.4	3776.2	498.6	281.7	265.1	304.3	411.2	593.5	926.3	695.9	662.8
82.5°	2723.3	1717.1	265.1	147.6	173.2	201.8	307.3	738.1	607.0	445.9	420.2
85°	1063.4	560.3	105.4	64.8	60.3	75.3	140.1	355.5	244.0	197.3	197.3
87.5°	137.1	100.9	30.1	22.6	19.6	24.1	45.2	197.3	114.5	96.4	93.4
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)