

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: P233697

Luminaire Tested: **VERD-C02H6-D-U-T2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P233697  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-32)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: VERD-C02H6-D-U-T2-HSS  
Description: VERDEON ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 4000K, 1250mA LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10532 lumens  
Efficiency: N/A  
Efficacy: 107.5 lumens/watt  
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 98  
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

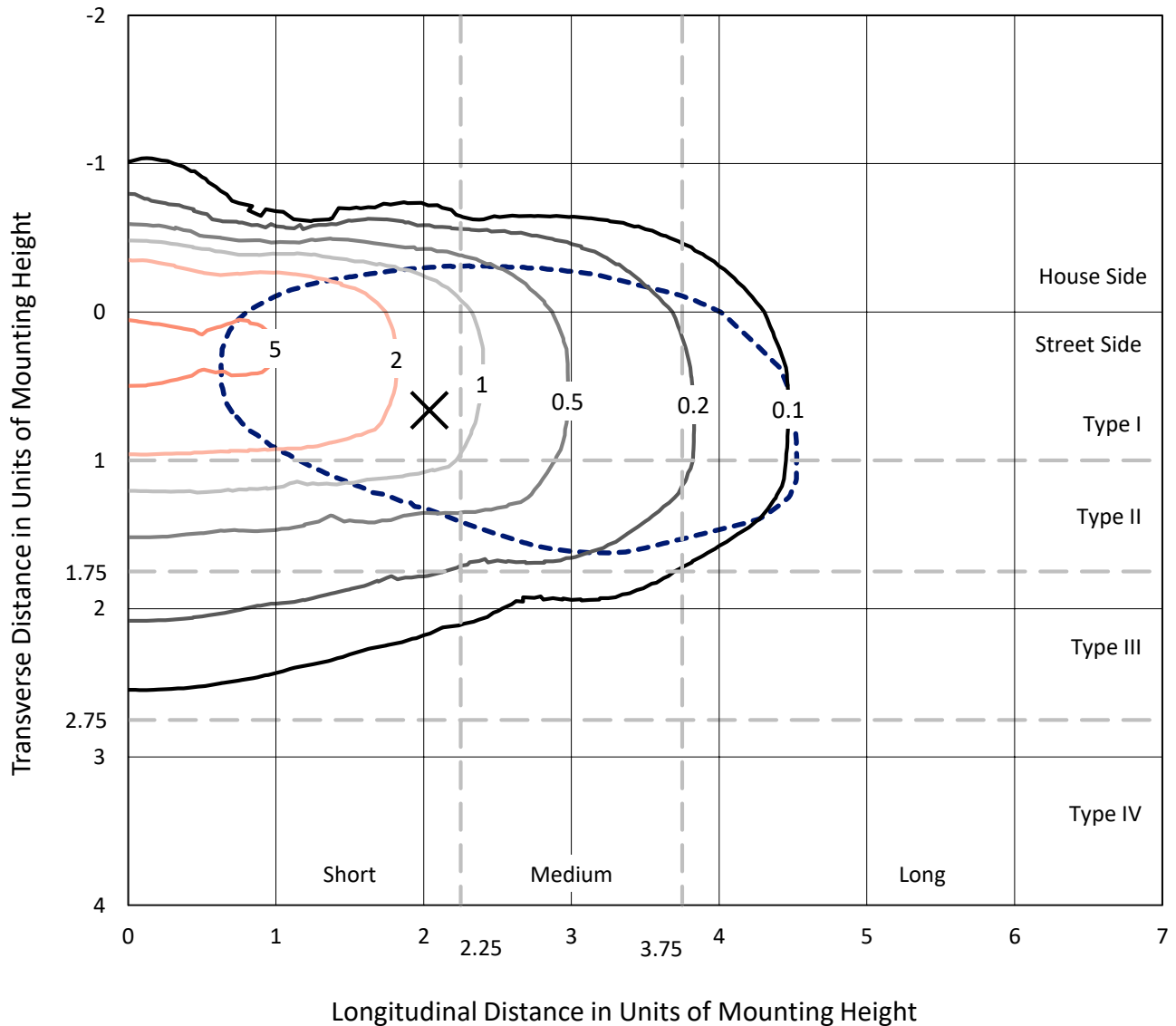


REPORT NUMBER: P233697

CATALOG NUMBER: VERD-C02H6-D-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

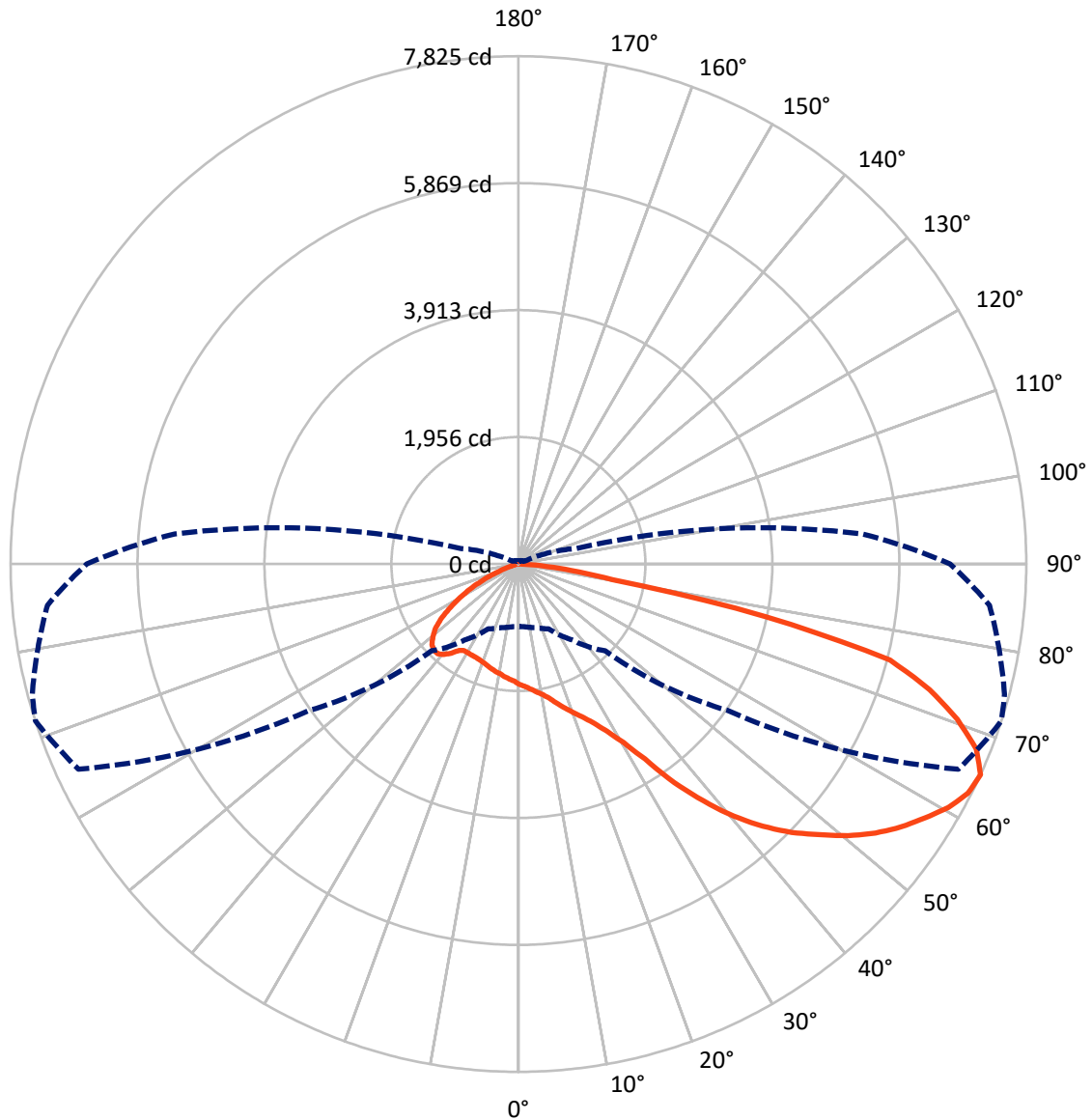


Based on 20 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - Non-Cutoff

REPORT NUMBER: P233697

CATALOG NUMBER: VERD-C02H6-D-U-T2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P233697

CATALOG NUMBER: VERD-C02H6-D-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2188.6	0.0	2188.6
	% Fixture	20.8	0.0	20.8
<b>Street Side</b>	Lumens	8343.4	0.0	8343.4
	% Fixture	79.2	0.0	79.2
<b>Total</b>	Lumens	10532.0	0.0	10532.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	177.9	1.7
10°-20°	540.0	5.1
20°-30°	902.4	8.6
30°-40°	1334.9	12.7
40°-50°	1845.4	17.5
50°-60°	2159.4	20.5
60°-70°	2146.4	20.4
70°-80°	1285.6	12.2
80°-90°	139.9	1.3
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°	10532.0	100.0
0°-180°	10532.0	100.0



REPORT NUMBER: P233697

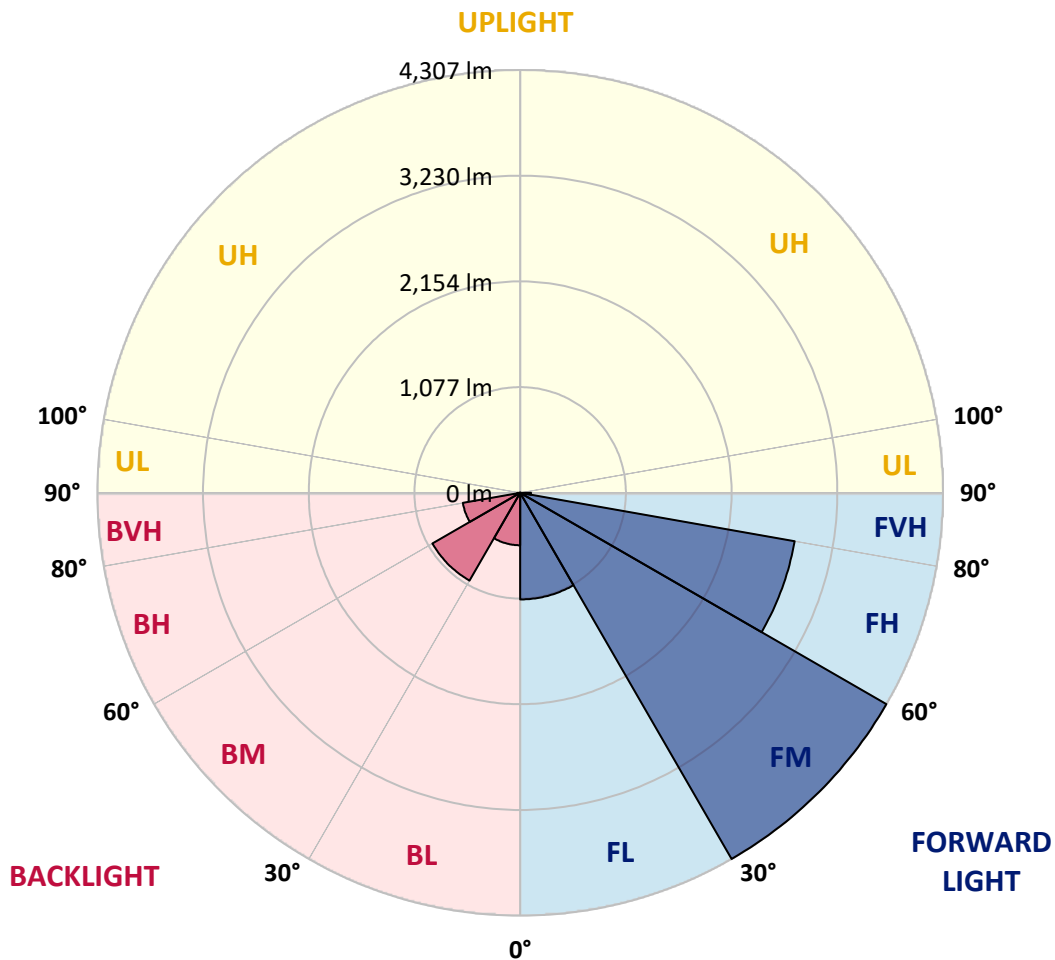
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1086.1	10.3			
FM (30°-60°)	4307.3	40.9			
FH (60°-80°)	2839.5	27.0			G2/5000
FVH (80°-90°)	110.6	1.1			G2/225
BL (0°-30°)	534.3	5.1	B2/1000		
BM (30°-60°)	1032.4	9.8	B2/2500		
BH (60°-80°)	592.6	5.6	B2/1000		G2/1000
BVH (80°-90°)	29.3	0.3			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





REPORT NUMBER: P233697

CATALOG NUMBER: VERD-C02H6-D-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2
2.5°	2012.6	2014.3	2015.1	1983.3	1966.2	1946.4	1927.5	1906.9	1885.4	1877.6	1849.3
5°	2136.3	2138.0	2132.9	2103.7	2071.9	2042.6	2006.5	1969.6	1933.5	1923.2	1875.1
7.5°	2255.8	2254.9	2250.6	2213.6	2174.1	2135.4	2084.7	2034.9	1987.6	1971.3	1900.0
10°	2354.6	2356.3	2358.9	2319.3	2280.7	2234.3	2172.4	2098.5	2044.4	2018.6	1925.8
12.5°	2462.9	2457.7	2464.6	2425.9	2372.6	2330.5	2274.7	2187.9	2123.4	2090.8	1975.6
15°	2586.6	2586.6	2577.1	2545.4	2491.2	2439.7	2383.8	2303.9	2226.5	2176.7	2042.6
17.5°	2671.7	2666.5	2663.9	2636.4	2590.0	2545.4	2502.4	2420.7	2336.5	2275.5	2105.4
20°	2707.8	2709.5	2721.5	2701.8	2676.8	2650.2	2602.9	2539.3	2446.5	2381.2	2172.4
22.5°	2777.4	2779.1	2793.7	2780.0	2773.1	2766.2	2722.4	2666.5	2567.7	2505.0	2256.6
25°	2781.7	2783.4	2822.9	2845.3	2880.5	2896.8	2866.7	2818.6	2718.1	2657.1	2382.1
27.5°	2794.6	2799.7	2840.1	2902.0	2994.8	3027.4	3010.3	3008.5	2923.5	2859.0	2545.4
30°	2783.4	2788.5	2847.0	2932.9	3061.8	3158.1	3177.8	3228.5	3194.2	3146.0	2772.2
32.5°	2704.3	2723.2	2792.8	2929.5	3119.4	3293.8	3357.4	3531.0	3582.6	3587.7	3227.7
35°	2560.8	2571.1	2697.5	2889.9	3158.1	3421.9	3597.2	3917.7	4136.0	4126.5	3732.1
37.5°	2451.7	2455.1	2584.9	2822.9	3179.5	3559.4	3870.4	4383.5	4634.4	4645.6	4187.5
40°	2311.6	2336.5	2461.1	2742.1	3167.5	3675.4	4142.0	4817.4	5109.6	5097.6	4587.1
42.5°	2181.0	2195.6	2319.3	2615.8	3123.7	3763.9	4408.4	5237.7	5524.7	5485.1	4970.4
45°	2045.2	2070.1	2183.6	2452.5	3036.9	3813.7	4649.9	5636.4	5899.3	5850.4	5308.1
47.5°	1909.4	1927.5	2047.8	2303.0	2873.6	3812.0	4887.0	6010.2	6231.9	6197.5	5627.8
50°	1453.1	1492.7	1808.9	2146.6	2644.2	3739.8	5078.7	6365.1	6580.8	6527.5	5939.7
52.5°	1332.0	1344.9	1433.4	1965.3	2399.3	3568.0	5228.2	6698.5	6888.4	6827.4	6233.6
55°	1258.9	1274.4	1310.5	1597.5	2198.2	3285.2	5290.1	7009.6	7151.4	7089.5	6495.7
57.5°	1161.8	1177.3	1248.6	1375.8	1988.5	2854.7	5199.0	7285.4	7384.3	7316.4	6738.9
60°	1094.8	1101.7	1170.4	1270.1	1759.1	2419.9	4894.8	7509.7	7612.9	7532.1	6979.5
62.5°	1032.9	1040.7	1089.6	1188.5	1569.1	2101.1	4421.3	7564.7	7775.3	7712.5	7199.5
65°	961.6	968.5	1013.2	1100.8	1422.2	1893.1	3933.2	7480.5	7825.1	7753.8	7284.6
67.5°	867.1	876.5	911.8	990.8	1229.7	1657.7	3207.0	7325.0	7606.8	7532.9	7110.1
70°	750.2	754.5	796.6	867.9	1038.9	1438.5	2515.3	6771.6	7174.6	7093.0	6618.6
72.5°	605.8	613.6	659.1	733.9	853.3	1185.0	1796.9	5851.2	6627.2	6596.3	5902.8
75°	404.7	434.8	543.1	618.7	705.5	925.5	1206.5	4106.8	5916.5	5940.6	5042.6
77.5°	77.3	79.9	227.7	338.6	412.5	565.4	746.8	2017.7	3899.7	4321.6	3802.6
80°	50.7	55.0	97.1	237.2	273.3	280.1	383.3	884.3	1469.5	1858.7	2193.0
82.5°	26.6	31.8	58.4	137.5	125.5	69.6	125.5	456.3	814.7	935.8	1106.0
85°	11.2	12.9	28.4	47.3	35.2	29.2	29.2	182.2	360.9	417.6	434.0
87.5°	1.7	1.7	6.0	8.6	5.2	3.4	2.6	0.9	0.9	0.9	0.9
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: P233697

CATALOG NUMBER: VERD-C02H6-D-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2	1856.2
2.5°	1849.3	1833.8	1812.3	1787.4	1769.4	1759.9	1752.2	1731.6	1724.7	1738.4	1735.0
5°	1857.0	1839.0	1790.0	1749.6	1709.2	1684.3	1656.8	1620.7	1605.2	1613.8	1611.3
7.5°	1862.2	1839.8	1766.8	1704.1	1636.2	1588.9	1552.8	1505.6	1482.4	1490.9	1480.6
10°	1869.9	1836.4	1739.3	1655.9	1567.4	1498.7	1445.4	1390.4	1366.3	1373.2	1364.6
12.5°	1902.6	1848.4	1726.4	1614.7	1506.4	1420.5	1353.5	1295.0	1260.6	1267.5	1260.6
15°	1955.8	1872.5	1707.5	1562.3	1442.0	1344.0	1266.7	1199.6	1160.1	1169.6	1161.0
17.5°	2011.7	1901.7	1690.3	1503.8	1373.2	1264.1	1183.3	1126.6	1063.0	1069.0	1056.1
20°	2059.8	1929.2	1680.9	1448.8	1308.8	1179.0	1081.9	1043.2	955.6	933.2	918.6
22.5°	2126.9	1969.6	1673.1	1404.2	1228.9	1093.9	978.8	906.6	812.1	764.8	760.5
25°	2222.2	2029.8	1672.3	1368.9	1156.7	1004.6	843.9	722.7	639.3	583.5	575.8
27.5°	2343.4	2109.7	1681.7	1333.7	1084.5	892.0	678.0	544.0	469.2	426.2	418.5
30°	2517.9	2214.5	1693.8	1293.3	1003.7	745.9	505.3	400.5	338.6	307.6	301.6
32.5°	2891.7	2483.5	1711.8	1251.2	906.6	562.0	366.9	290.5	243.2	224.3	233.7
35°	3342.0	2848.7	1792.6	1197.1	779.4	400.5	264.7	207.1	174.4	178.7	183.9
37.5°	3735.5	3197.6	1973.9	1127.4	609.3	293.9	182.2	154.7	154.7	168.4	180.5
40°	4106.8	3512.1	2136.3	1032.9	427.1	202.8	140.9	143.5	140.9	149.5	146.9
42.5°	4457.4	3810.3	2263.5	920.3	279.3	140.1	128.0	133.2	128.9	130.6	122.9
45°	4789.1	4118.8	2334.0	754.5	185.6	122.0	117.7	126.3	125.5	123.7	116.0
47.5°	5095.9	4390.3	2369.2	544.0	128.0	110.0	110.9	116.9	119.4	117.7	113.4
50°	5396.6	4661.0	2337.4	325.7	115.2	100.5	106.6	106.6	111.7	102.3	98.8
52.5°	5684.5	4932.6	2236.9	197.6	105.7	93.7	98.8	97.1	99.7	90.2	88.5
55°	5955.2	5134.5	2038.3	155.5	99.7	89.4	90.2	91.9	87.7	77.3	80.8
57.5°	6241.4	5306.4	1761.6	140.9	97.1	83.4	85.1	84.2	77.3	67.9	67.9
60°	6476.8	5431.0	1484.1	128.0	95.4	81.6	75.6	73.9	63.6	58.4	57.6
62.5°	6639.2	5466.2	1213.4	114.3	90.2	75.6	67.9	62.7	53.3	48.1	46.4
65°	6652.1	5315.9	923.8	103.1	85.1	70.5	62.7	51.6	42.1	37.8	36.1
67.5°	6388.3	4898.2	651.4	94.5	76.5	65.3	55.0	41.2	33.5	30.1	29.2
70°	5836.6	4379.2	398.7	82.5	69.6	61.0	56.7	33.5	27.5	23.2	23.2
72.5°	5121.6	3793.1	233.7	70.5	58.4	49.0	37.8	28.4	23.2	18.0	18.0
75°	4389.5	3011.1	143.5	53.3	43.0	38.7	29.2	24.1	18.9	13.7	13.7
77.5°	3160.6	2223.1	111.7	34.4	26.6	27.5	21.5	18.9	15.5	11.2	11.2
80°	1939.5	1353.5	79.9	23.2	15.5	15.5	15.5	14.6	11.2	9.5	8.6
82.5°	983.1	618.7	39.5	13.7	9.5	9.5	9.5	10.3	8.6	6.9	6.9
85°	345.5	173.6	12.0	6.9	6.0	6.0	5.2	5.2	4.3	3.4	3.4
87.5°	0.9	1.7	1.7	2.6	3.4	3.4	2.6	1.7	0.9	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)