

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: P509397

Luminaire Tested: **VERD-CA2-90-727-U-T2**

Issue Date: 3/4/2021

Test Information

Test Method: LM-79-08
Report Number: P509397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-139-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-CA2-90-727-U-T2
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 1250mA LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10905 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

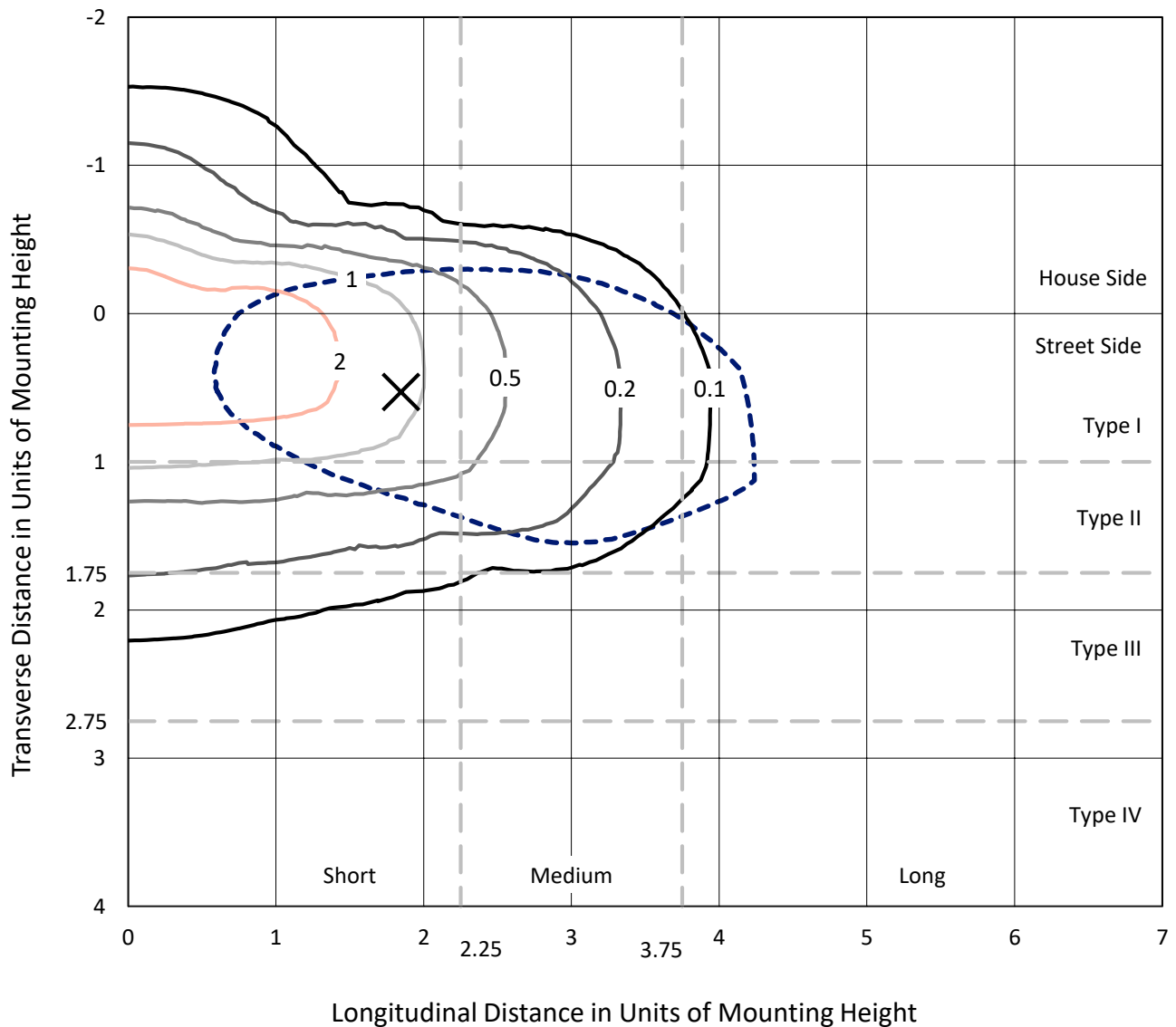
Input Watts (W): 94.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P509397
 CATALOG NUMBER: VERD-CA2-90-727-U-T2

Iso-Footcandle Lines of Horizontal Illumination

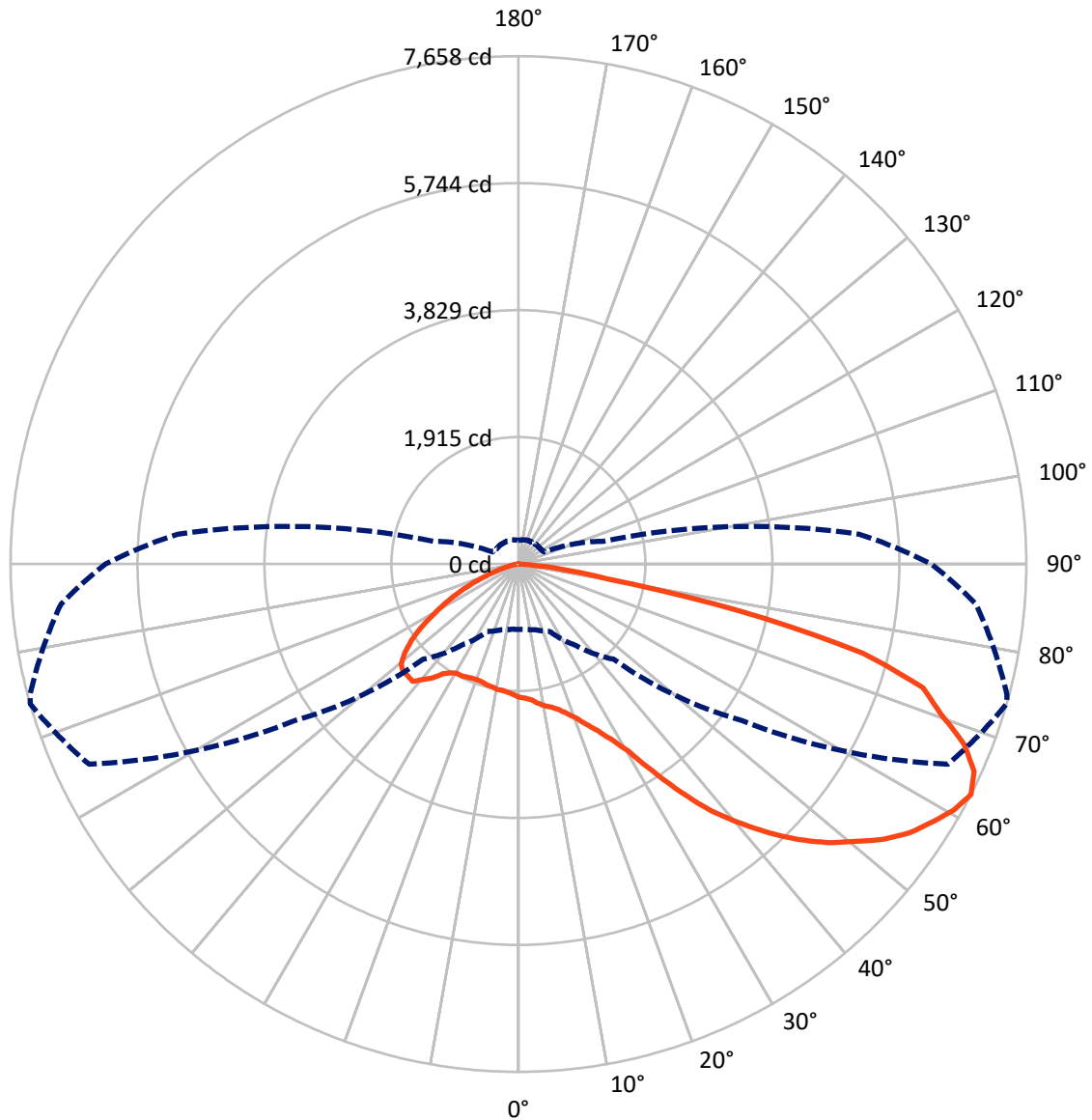
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type II - Short - N/A

REPORT NUMBER: P509397
CATALOG NUMBER: VERD-CA2-90-727-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P509397

CATALOG NUMBER: VERD-CA2-90-727-U-T2

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2815.8	0.0	2815.8
	% Fixture	25.8	0.0	25.8
Street Side	Lumens	8089.2	0.0	8089.2
	% Fixture	74.2	0.0	74.2
Total	Lumens	10905.0	0.0	10905.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.8
10°-20°	589.1	5.4
20°-30°	993.3	9.1
30°-40°	1451.3	13.3
40°-50°	1932.5	17.7
50°-60°	2223.9	20.4
60°-70°	2149.1	19.7
70°-80°	1237.2	11.3
80°-90°	135.4	1.2
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°	10905.0	100.0
0°-180°	10905.0	100.0

Coefficient of Utilization



REPORT NUMBER: P509397

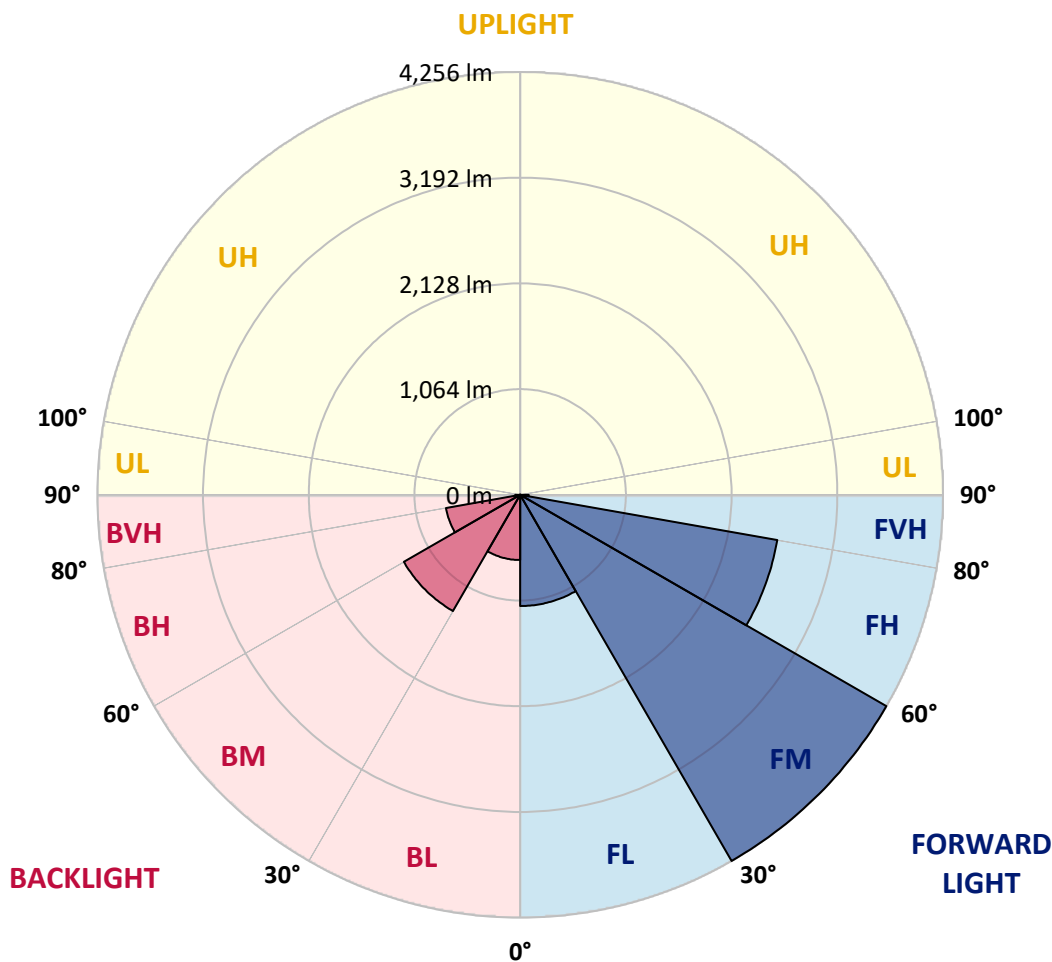
CATALOG NUMBER: VERD-CA2-90-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.2	10.3			
FM (30°-60°)	4256.2	39.0			
FH (60°-80°)	2628.2	24.1			G2/5000
FVH (80°-90°)	85.6	0.8			G1/100
BL (0°-30°)	656.5	6.0	B2/1000		
BM (30°-60°)	1351.5	12.4	B2/2500		
BH (60°-80°)	758.0	7.0	B2/1000		G2/1000
BVH (80°-90°)	49.7	0.5			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: P509397

CATALOG NUMBER: VERD-CA2-90-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8
2.5°	2152.3	2136.9	2127.4	2116.7	2103.6	2098.8	2070.3	2045.3	2025.1	2026.3	2013.2
5°	2230.8	2214.2	2192.8	2189.2	2172.5	2169.0	2141.6	2102.4	2058.4	2052.4	2013.2
7.5°	2318.8	2309.3	2296.2	2279.6	2252.2	2234.4	2195.1	2164.2	2119.0	2113.1	2035.8
10°	2425.8	2418.7	2409.2	2409.2	2373.5	2335.5	2287.9	2210.6	2174.9	2169.0	2075.0
12.5°	2551.9	2530.5	2499.6	2481.7	2448.4	2424.6	2373.5	2291.5	2214.2	2211.8	2111.9
15°	2633.9	2616.1	2595.9	2588.7	2545.9	2506.7	2452.0	2386.6	2278.4	2270.1	2157.1
17.5°	2725.5	2708.8	2685.1	2672.0	2644.6	2599.4	2550.7	2465.1	2368.8	2360.4	2208.2
20°	2776.6	2758.8	2751.7	2754.0	2744.5	2721.9	2663.7	2586.4	2475.8	2465.1	2278.4
22.5°	2833.7	2821.8	2824.2	2842.0	2859.9	2851.5	2806.4	2720.7	2625.6	2609.0	2391.3
25°	2834.9	2825.4	2857.5	2926.5	2964.5	2983.5	2959.8	2889.6	2788.5	2773.1	2535.2
27.5°	2855.1	2840.8	2875.3	2947.9	3063.2	3102.4	3110.8	3084.6	2997.8	2978.8	2707.7
30°	2802.8	2793.3	2845.6	2971.6	3107.2	3238.0	3285.6	3326.0	3277.3	3278.4	2974.0
32.5°	2712.4	2695.8	2775.4	2930.0	3182.1	3360.5	3486.5	3649.5	3724.4	3717.2	3437.8
35°	2540.0	2549.5	2656.5	2893.2	3184.5	3485.4	3732.7	4024.0	4227.4	4222.6	3918.2
37.5°	2417.5	2412.8	2538.8	2789.7	3183.3	3595.9	3971.7	4456.9	4719.7	4712.5	4330.8
40°	2270.1	2271.2	2397.3	2661.3	3127.4	3664.9	4219.0	4867.1	5134.7	5124.0	4725.6
42.5°	2111.9	2116.7	2234.4	2504.3	3050.1	3717.2	4440.2	5282.1	5541.4	5550.9	5041.9
45°	1970.4	1972.8	2089.3	2336.6	2913.4	3723.2	4638.8	5674.5	5926.6	5904.0	5373.7
47.5°	1762.3	1764.7	1937.1	2177.3	2732.6	3674.4	4802.9	6047.9	6278.6	6231.1	5654.3
50°	1380.6	1385.3	1589.9	2012.0	2512.6	3562.6	4932.5	6398.7	6577.1	6556.9	5942.1
52.5°	1274.8	1271.2	1356.8	1814.6	2315.2	3360.5	5014.6	6713.8	6894.6	6892.2	6179.9
55°	1221.2	1217.7	1246.2	1471.0	2121.4	3060.8	5012.2	6958.8	7157.4	7108.6	6397.5
57.5°	1126.1	1119.0	1192.7	1303.3	1905.0	2687.4	4893.3	7178.8	7347.7	7333.4	6593.7
60°	1058.3	1052.4	1102.3	1204.6	1674.3	2308.1	4587.7	7293.0	7539.1	7545.1	6759.0
62.5°	988.2	984.6	1027.4	1122.5	1493.6	2031.0	4116.8	7143.1	7658.0	7625.9	6924.3
65°	908.5	906.1	946.6	1023.8	1314.0	1820.6	3655.4	6875.6	7551.0	7587.9	6945.7
67.5°	813.4	812.2	851.4	904.9	1117.8	1608.9	2949.1	6560.4	7245.4	7205.0	6671.0
70°	696.8	692.1	740.8	790.8	935.8	1368.7	2295.0	6000.4	6748.3	6894.6	6124.0
72.5°	586.2	583.9	630.2	667.1	775.3	1117.8	1674.3	5189.4	6376.1	6165.7	5517.6
75°	459.0	447.1	495.9	530.4	611.2	889.5	1141.6	3466.3	5366.6	5322.6	4635.2
77.5°	185.5	215.2	256.9	287.8	341.3	504.2	596.9	1644.6	3423.5	3574.5	3223.7
80°	71.3	76.1	183.1	206.9	229.5	290.1	229.5	693.3	1350.9	1473.3	1866.9
82.5°	40.4	45.2	90.4	86.8	85.6	73.7	85.6	340.1	705.2	772.9	901.4
85°	22.6	25.0	36.9	40.4	34.5	29.7	26.2	89.2	176.0	166.5	186.7
87.5°	3.6	4.8	5.9	5.9	3.6	3.6	3.6	4.8	4.8	4.8	5.9
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: P509397
 CATALOG NUMBER: VERD-CA2-90-727-U-T2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8	2010.8
2.5°	2000.1	1987.0	1974.0	1958.5	1939.5	1927.6	1922.8	1928.8	1945.4	1925.2	1908.6
5°	1993.0	1975.2	1945.4	1915.7	1891.9	1871.7	1844.3	1842.0	1846.7	1838.4	1817.0
7.5°	2008.4	1982.3	1921.6	1901.4	1851.5	1803.9	1788.5	1782.5	1768.2	1751.6	1731.4
10°	2039.4	1985.9	1924.0	1864.6	1818.2	1767.1	1707.6	1708.8	1702.8	1683.8	1664.8
12.5°	2054.8	1991.8	1901.4	1838.4	1767.1	1704.0	1645.8	1619.6	1630.3	1614.8	1594.6
15°	2083.4	2016.8	1893.1	1800.3	1702.8	1631.5	1587.5	1549.4	1525.7	1529.2	1517.3
17.5°	2136.9	2039.4	1871.7	1758.7	1652.9	1568.5	1484.0	1480.5	1444.8	1424.6	1406.7
20°	2192.8	2079.8	1869.3	1713.5	1572.0	1467.4	1399.6	1361.6	1340.2	1323.5	1310.4
22.5°	2265.3	2135.7	1877.6	1687.4	1499.5	1381.8	1295.0	1243.8	1209.3	1197.5	1187.9
25°	2367.6	2205.8	1900.2	1641.0	1423.4	1287.8	1170.1	1116.6	1077.4	1067.8	1060.7
27.5°	2507.9	2295.0	1922.8	1591.1	1334.2	1155.8	1031.0	978.7	934.7	933.5	920.4
30°	2729.1	2431.8	1931.2	1547.1	1239.1	1014.3	889.5	840.7	807.4	794.3	803.9
32.5°	3141.7	2733.8	1983.5	1479.3	1119.0	876.4	770.6	731.3	694.5	680.2	689.7
35°	3587.6	3095.3	2071.5	1432.9	987.0	745.6	673.0	626.7	581.5	574.4	570.8
37.5°	3914.6	3424.7	2237.9	1356.8	862.1	665.9	570.8	532.7	506.6	492.3	505.4
40°	4285.6	3698.2	2364.0	1275.9	734.9	581.5	475.7	463.8	451.9	442.4	456.6
42.5°	4579.4	3980.0	2513.8	1168.9	632.6	493.5	423.3	432.8	438.8	434.0	435.2
45°	4849.3	4189.3	2523.3	1006.0	539.9	428.1	407.9	426.9	441.2	438.8	437.6
47.5°	5113.3	4439.0	2545.9	833.6	473.3	411.4	409.1	423.3	442.4	445.9	445.9
50°	5385.6	4629.3	2511.5	670.7	448.3	413.8	412.6	411.4	435.2	436.4	440.0
52.5°	5590.1	4783.9	2348.5	554.1	447.1	421.0	418.6	406.7	417.4	425.7	419.8
55°	5806.5	4976.5	2142.8	510.1	444.7	423.3	432.8	412.6	405.5	398.4	405.5
57.5°	6012.3	5110.9	1872.9	484.0	435.2	419.8	438.8	411.4	396.0	375.8	368.6
60°	6170.4	5141.8	1572.0	456.6	423.3	411.4	412.6	403.1	382.9	357.9	347.2
62.5°	6223.9	5159.7	1322.3	430.5	399.5	398.4	388.8	385.3	377.0	361.5	356.7
65°	6178.7	4957.5	1056.0	398.4	379.3	380.5	366.3	354.4	335.3	310.4	308.0
67.5°	5868.4	4601.9	809.8	357.9	348.4	360.3	344.8	324.6	303.2	286.6	289.0
70°	5336.8	4181.0	568.4	302.0	312.7	334.1	328.2	302.0	278.3	264.0	266.4
72.5°	4745.8	3542.4	386.5	235.4	254.5	299.7	299.7	281.8	258.0	239.0	234.3
75°	3743.4	2782.6	249.7	155.8	167.7	245.0	265.2	237.8	211.7	199.8	195.0
77.5°	2541.2	1812.2	159.3	89.2	111.8	160.5	209.3	212.9	250.9	252.1	241.4
80°	1493.6	1036.9	97.5	52.3	55.9	92.8	167.7	210.5	266.4	187.9	172.4
82.5°	743.2	442.4	44.0	32.1	33.3	46.4	90.4	241.4	205.7	117.7	113.0
85°	165.3	72.5	17.8	16.6	19.0	23.8	46.4	199.8	126.0	95.1	92.8
87.5°	5.9	4.8	4.8	4.8	3.6	3.6	9.5	65.4	49.9	41.6	39.2
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)