

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: P233562

Luminaire Tested: **VERD-C01H-D-U-T4-8027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233562
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-15)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C01H-D-U-T4-8027
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 2700K, 1210mA LED AND TYPE IV OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7722 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 73
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

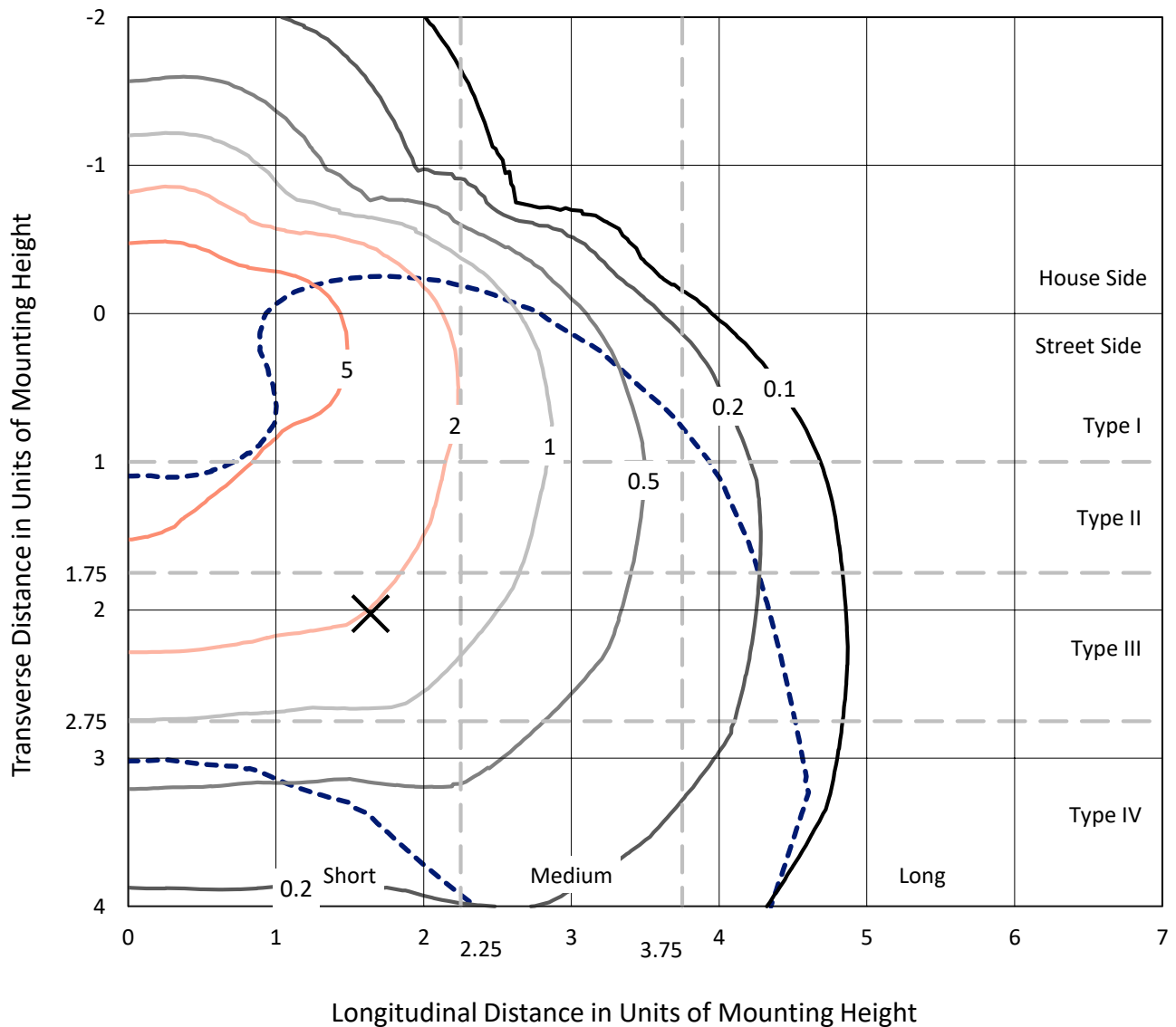


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

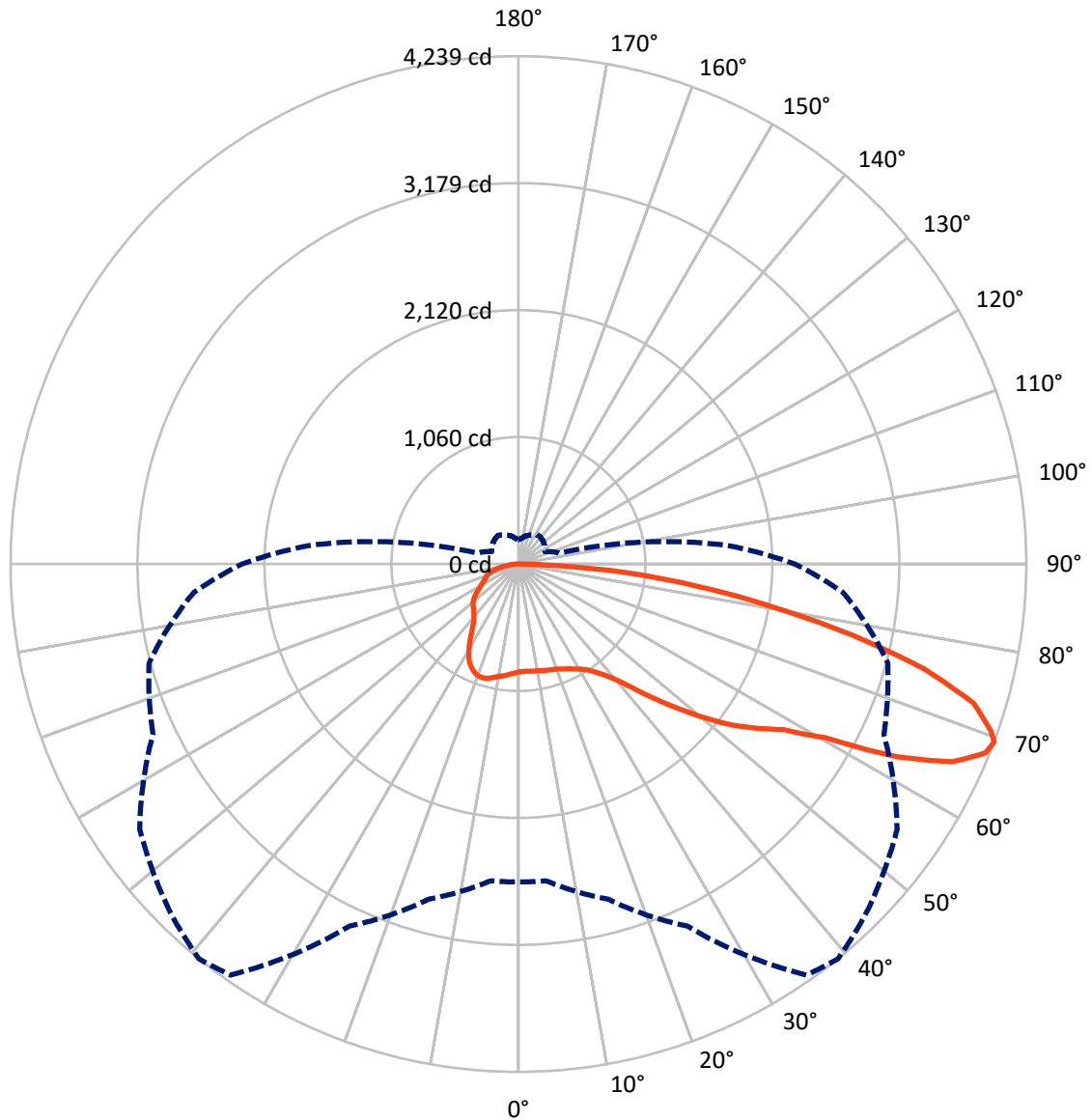


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1810.2	0.0	1810.2
	% Fixture	23.4	0.0	23.4
Street Side	Lumens	5911.8	0.0	5911.8
	% Fixture	76.6	0.0	76.6
Total	Lumens	7722.0	0.0	7722.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	1.1
10°-20°	270.2	3.5
20°-30°	454.8	5.9
30°-40°	658.9	8.5
40°-50°	1065.0	13.8
50°-60°	1559.2	20.2
60°-70°	1951.6	25.3
70°-80°	1395.2	18.1
80°-90°	279.7	3.6
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°	7722.0	100.0
0°-180°	7722.0	100.0



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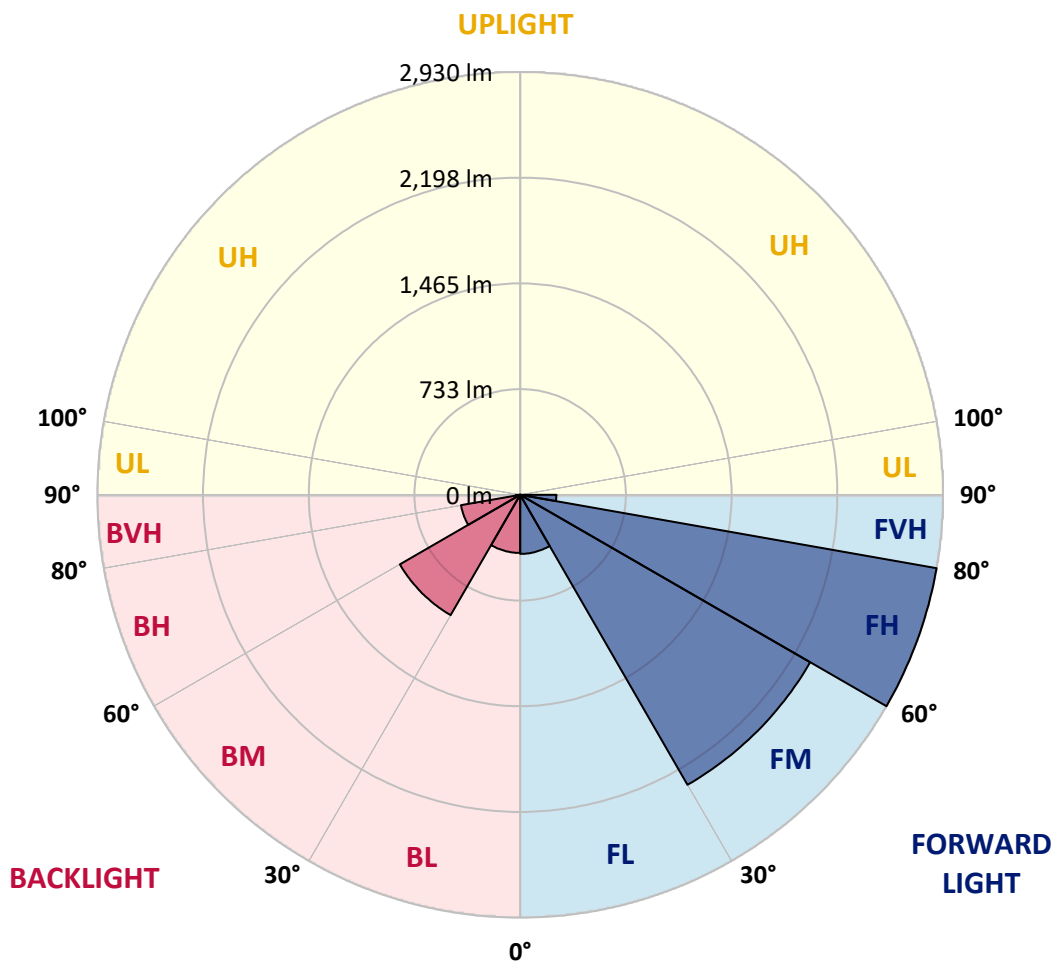
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.7	5.3			
FM	(30°-60°)	2320.6	30.1			
FH	(60°-80°)	2930.5	37.9			G2/5000
FVH	(80°-90°)	251.1	3.3			G3/500
BL	(0°-30°)	402.7	5.2	B1/500		
BM	(30°-60°)	962.6	12.5	B1/1000		
BH	(60°-80°)	416.3	5.4	B1/500		G1/500
BVH	(80°-90°)	28.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	915.1	913.7	910.8	899.5	898.0	897.3	898.8	894.5	893.8	895.2	893.8
5°	915.8	914.4	910.8	900.9	899.5	898.0	898.8	895.2	895.9	899.5	899.5
7.5°	917.3	915.8	912.3	901.6	904.4	903.0	905.9	900.9	900.9	903.7	904.4
10°	913.7	913.0	910.8	903.0	907.3	904.4	907.3	908.0	910.8	913.0	912.3
12.5°	904.4	904.4	904.4	900.9	913.0	912.3	917.3	922.2	929.4	932.9	935.0
15°	898.8	898.0	903.0	902.3	917.3	919.4	927.9	940.7	951.4	960.7	963.5
17.5°	904.4	904.4	910.8	909.4	924.4	925.8	935.0	953.5	971.3	989.1	997.0
20°	910.8	911.6	919.4	921.5	935.8	935.0	944.3	967.1	991.3	1017.6	1031.1
22.5°	930.8	930.1	936.5	932.2	948.6	951.4	959.2	979.2	1013.3	1046.8	1068.8
25°	945.7	947.9	954.3	951.4	964.9	968.5	981.3	1000.5	1041.1	1080.9	1120.1
27.5°	959.9	964.2	969.2	968.5	987.0	991.3	1001.2	1031.1	1078.1	1125.8	1180.5
30°	981.3	979.9	983.4	989.8	1014.0	1016.9	1029.0	1065.3	1122.2	1184.1	1257.4
32.5°	1009.8	1008.3	1011.9	1017.6	1046.8	1053.9	1070.2	1109.4	1181.3	1256.0	1345.6
35°	1054.6	1058.1	1061.0	1068.1	1096.6	1106.5	1128.6	1178.4	1261.7	1381.2	1509.3
37.5°	1210.4	1202.6	1186.9	1158.5	1166.3	1177.7	1209.0	1280.2	1401.1	1603.9	1721.4
40°	1453.8	1444.5	1395.4	1312.2	1274.5	1277.3	1307.9	1404.7	1569.8	1865.8	1974.0
42.5°	1682.9	1671.5	1613.2	1509.3	1434.6	1426.0	1428.9	1540.6	1754.8	2127.7	2185.3
45°	1899.3	1905.0	1816.0	1736.3	1650.9	1611.8	1599.7	1682.9	1960.5	2354.7	2372.5
47.5°	2106.3	2110.6	2010.3	1933.4	1850.9	1805.3	1781.8	1846.6	2149.7	2538.3	2521.9
50°	2317.7	2329.1	2191.7	2126.3	2050.1	2017.4	1994.6	2037.3	2359.0	2714.0	2663.5
52.5°	2615.8	2568.2	2388.1	2295.6	2241.5	2231.6	2208.1	2243.0	2581.0	2869.2	2763.9
55°	2947.4	2845.7	2656.4	2494.9	2420.2	2420.2	2399.5	2440.1	2810.1	2985.2	2845.7
57.5°	3054.9	3064.9	2999.4	2823.6	2623.0	2607.3	2587.4	2642.9	3006.5	3089.1	2876.3
60°	3242.8	3270.5	3321.0	3174.4	3075.5	2942.5	2821.5	2851.4	3175.9	3174.4	2909.0
62.5°	3336.0	3362.3	3520.3	3441.3	3534.5	3543.8	3317.5	3086.9	3301.1	3217.1	2924.7
65°	3247.7	3266.2	3476.9	3580.8	3851.2	3980.0	3868.3	3403.6	3367.3	3199.4	2866.3
67.5°	2958.1	2993.0	3167.3	3484.0	4133.7	4205.6	4101.0	3838.4	3395.8	3205.0	2819.4
69°	2653.6	2654.3	2896.2	3335.3	4189.2	4239.0	4110.9	3859.0	3365.9	3191.5	2719.0
70°	2482.1	2499.9	2679.2	3206.5	4168.6	4184.9	4086.7	3858.3	3345.2	3187.3	2623.7
72.5°	1937.0	1927.7	2106.3	2681.3	3935.2	3971.4	3863.3	3749.4	3328.2	3003.7	2219.5
75°	1354.2	1382.6	1557.7	2031.6	3390.8	3499.7	3499.7	3602.1	3063.4	2566.7	1604.7
77.5°	1007.6	1011.9	1152.1	1552.0	2728.3	2841.4	2945.3	3031.4	2394.5	1758.4	717.3
80°	682.4	688.8	816.9	1145.0	2021.7	2125.6	2289.9	2085.7	1424.6	608.4	81.8
82.5°	429.8	438.3	540.1	804.1	1441.0	1488.0	1538.5	1177.7	474.6	70.4	51.9
85°	255.5	256.9	325.9	513.8	878.8	881.7	827.6	542.2	127.4	42.0	32.7
87.5°	106.7	112.4	142.3	227.7	257.6	203.5	126.7	43.4	19.2	17.1	11.4
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°	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5	899.5
2.5°	889.5	897.3	895.9	898.0	900.9	906.6	913.0	910.1	913.7	921.5	921.5
5°	897.3	903.7	905.9	910.1	913.7	919.4	923.7	922.2	930.1	941.4	941.4
7.5°	903.7	908.7	915.8	920.8	924.4	935.8	940.0	937.2	942.9	956.4	957.1
10°	913.0	918.0	928.6	933.6	940.7	946.4	952.1	951.4	957.1	969.2	971.3
12.5°	935.8	939.3	954.3	961.4	961.4	968.5	964.2	957.1	959.9	967.1	968.5
15°	965.6	970.6	989.8	993.4	989.8	991.3	981.3	958.5	947.1	949.3	950.0
17.5°	999.8	1008.3	1030.4	1025.4	1021.1	1010.5	984.9	950.7	916.5	903.7	905.9
20°	1036.1	1046.8	1072.4	1061.7	1046.1	1018.3	977.0	918.7	866.0	835.4	834.0
22.5°	1078.1	1091.6	1115.8	1097.3	1062.4	1014.0	950.7	879.5	812.6	765.0	762.1
25°	1135.7	1150.7	1159.2	1122.2	1065.3	998.4	913.0	826.2	742.2	685.3	681.0
27.5°	1201.2	1209.0	1191.9	1136.4	1051.7	964.9	866.0	758.6	666.1	619.1	612.7
30°	1273.8	1267.4	1214.0	1129.3	1016.9	912.3	792.7	672.5	598.5	560.7	555.0
32.5°	1357.7	1337.8	1231.1	1109.4	970.6	843.2	713.0	617.7	558.6	520.9	518.0
35°	1495.8	1438.9	1258.8	1078.8	909.4	762.1	639.7	570.7	524.4	477.5	470.4
37.5°	1695.7	1588.3	1299.4	1050.3	843.2	683.8	584.2	533.0	492.4	439.8	429.8
40°	1903.5	1764.1	1366.3	1019.0	781.3	626.2	553.6	517.3	477.5	427.7	414.2
42.5°	2093.5	1931.3	1444.5	979.9	716.6	580.0	538.7	513.1	473.2	426.2	415.6
45°	2265.7	2088.5	1525.0	935.0	645.4	543.0	526.6	505.2	464.7	419.8	411.3
47.5°	2410.9	2222.3	1606.1	883.1	577.1	520.2	513.8	491.0	453.3	409.9	402.8
50°	2531.2	2318.4	1652.3	828.3	520.9	503.1	495.3	466.8	428.4	387.8	383.6
52.5°	2620.1	2378.2	1694.3	799.1	476.8	475.3	470.4	442.6	405.6	363.6	355.1
55°	2682.0	2427.3	1675.8	776.4	429.8	440.5	437.6	420.6	389.2	340.1	333.0
57.5°	2685.6	2431.5	1636.0	641.2	383.6	398.5	403.5	406.3	371.5	328.0	319.5
60°	2682.0	2400.2	1562.0	470.4	338.7	356.5	375.0	375.0	350.8	308.1	301.7
62.5°	2665.7	2338.3	1389.8	335.2	303.1	326.6	350.8	340.1	319.5	285.4	278.9
65°	2590.9	2235.1	1087.3	273.3	288.2	309.5	320.9	306.0	279.7	244.1	241.2
67.5°	2455.0	1998.9	629.1	250.5	275.4	294.6	303.9	281.1	256.2	222.0	220.6
69°	2305.6	1759.8	354.4	244.8	267.6	284.6	292.5	267.6	243.4	210.6	204.2
70°	2171.8	1546.3	230.6	239.8	259.7	278.2	283.9	258.3	235.5	202.1	197.8
72.5°	1645.2	931.5	155.1	219.2	238.4	252.6	261.2	237.0	211.3	177.9	169.4
75°	898.8	253.3	136.6	187.9	212.1	231.3	233.4	202.8	165.8	131.6	128.1
77.5°	175.1	86.8	117.4	155.1	168.6	191.4	190.0	169.4	143.7	111.7	107.5
80°	66.2	62.6	98.2	111.0	118.8	143.0	151.6	136.6	119.5	76.1	65.5
82.5°	44.8	46.3	73.3	65.5	72.6	84.7	106.7	103.9	94.6	51.9	46.3
85°	31.3	36.3	40.6	27.8	35.6	53.4	70.4	68.3	58.4	36.3	32.7
87.5°	9.3	10.0	11.4	14.2	22.1	39.8	57.6	47.7	32.0	27.0	23.5
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)