

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: P317508

Luminaire Tested: **GAN-SA4A-760-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317508
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-760-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19585 lumens
Efficiency: N/A
Efficacy: 151.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

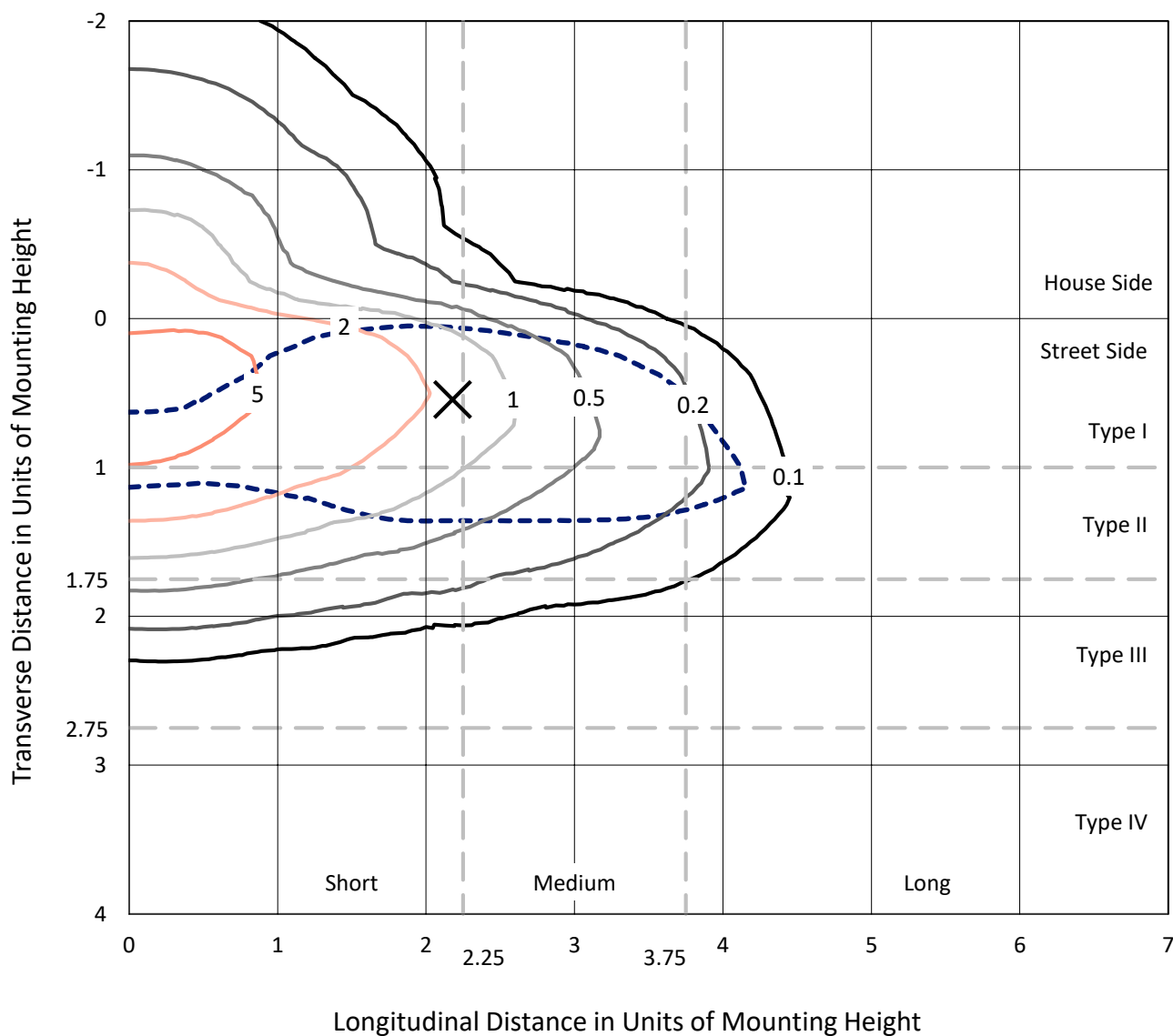
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

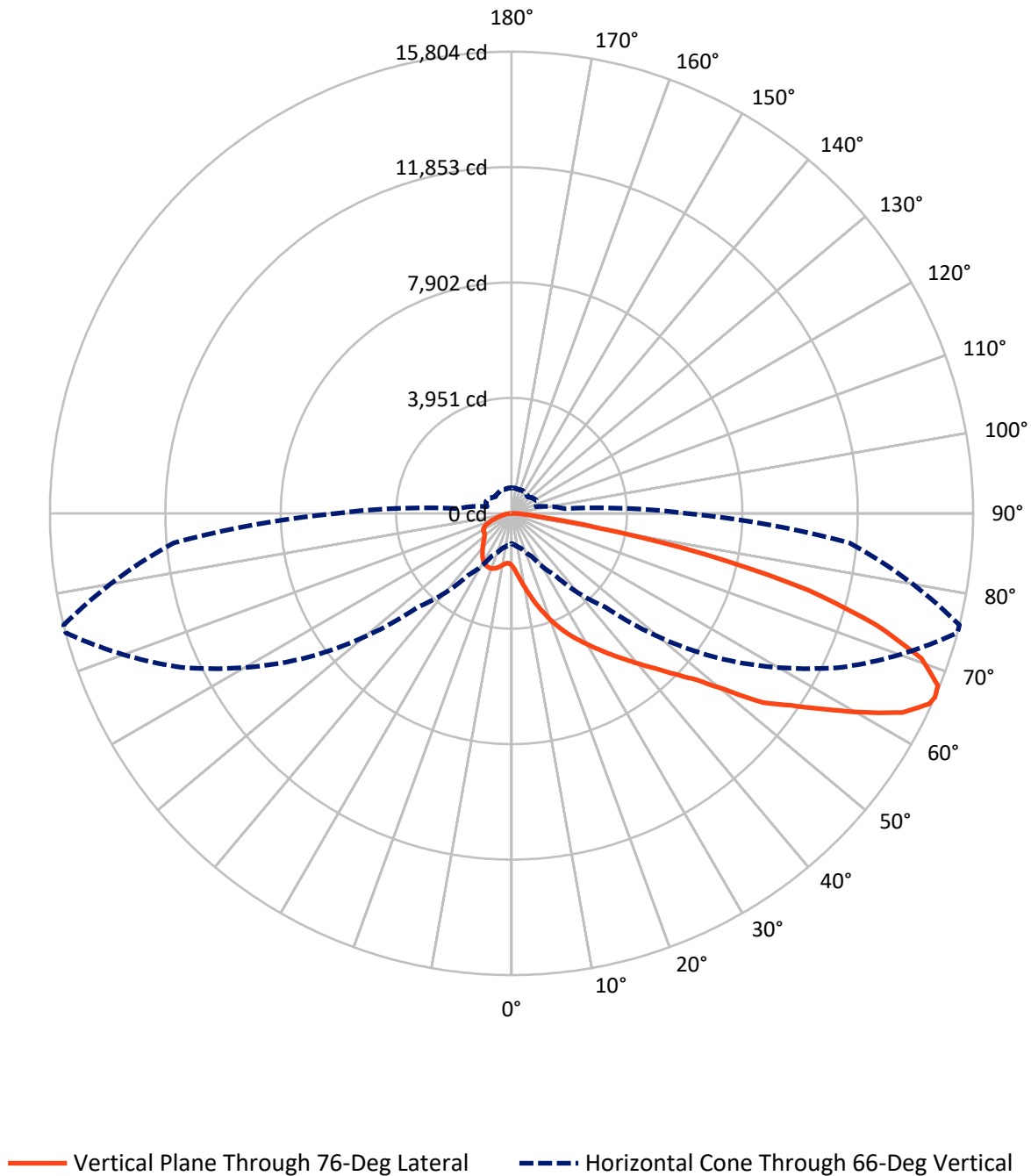
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3295.5	0.0	3295.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	16289.5	0.0	16289.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	19585.0	0.0	19585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.3	1.1
10°-20°	854.1	4.4
20°-30°	1659.7	8.5
30°-40°	2709.0	13.8
40°-50°	3701.2	18.9
50°-60°	4311.1	22.0
60°-70°	3865.0	19.7
70°-80°	1953.2	10.0
80°-90°	315.4	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°	19585.0	100.0
0°-180°	19585.0	100.0

Coefficient of Utilization



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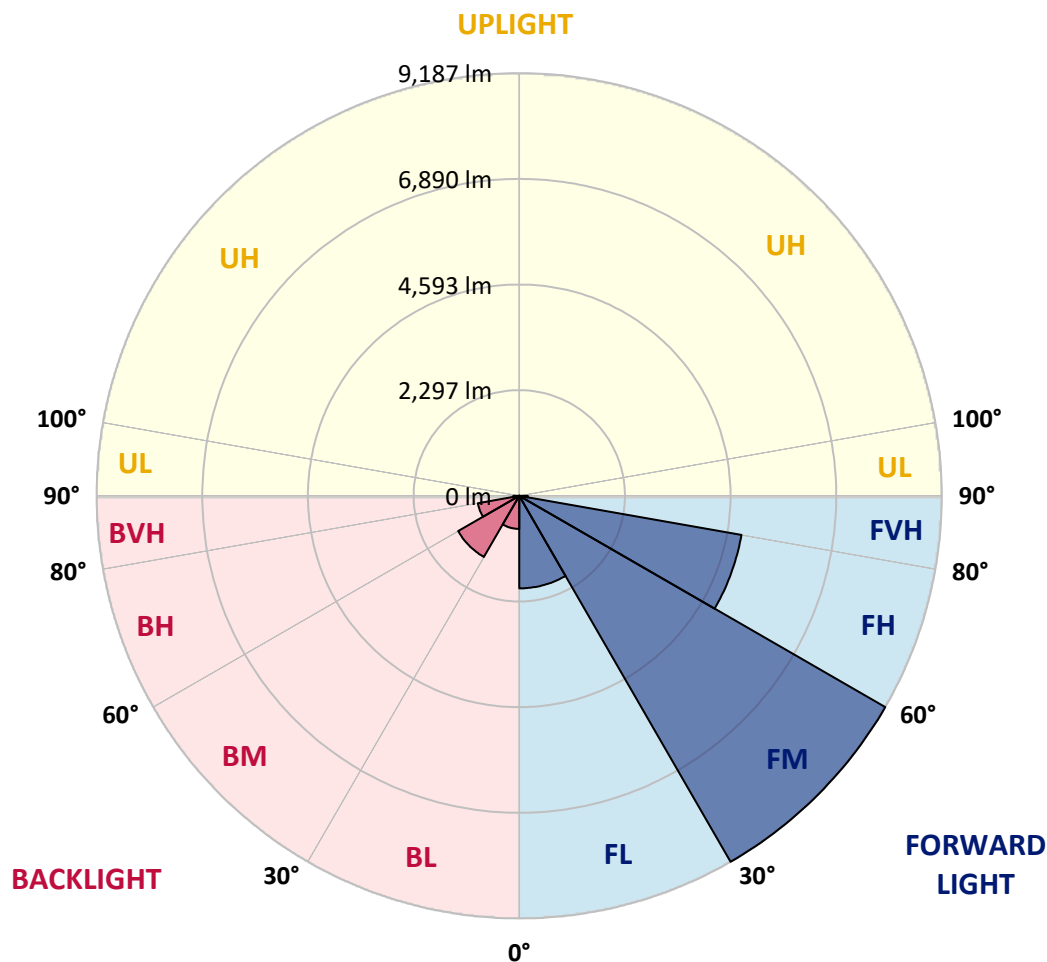
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2011.3	10.3			
FM	(30°-60°)	9186.7	46.9			
FH	(60°-80°)	4905.2	25.0			G2/5000
FVH	(80°-90°)	186.3	1.0			G2/225
BL	(0°-30°)	718.8	3.7	B2/1000		
BM	(30°-60°)	1534.6	7.8	B2/2500		
BH	(60°-80°)	913.0	4.7	B2/1000		G2/1000
BVH	(80°-90°)	129.1	0.7			G2/225
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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6
2.5°	2374.3	2338.4	2335.1	2282.6	2270.6	2170.2	2096.4	2019.3	1931.5	1914.2	1845.1
5°	3049.8	3046.5	3000.6	2914.9	2847.7	2676.2	2506.6	2327.1	2130.3	2098.4	1942.8
7.5°	3657.6	3652.2	3617.0	3524.6	3427.5	3216.7	2974.7	2699.5	2380.3	2333.1	2075.1
10°	4119.0	4117.0	4105.0	4037.2	3954.8	3752.6	3485.3	3109.7	2670.9	2606.4	2240.7
12.5°	4475.4	4479.4	4487.3	4463.4	4424.2	4252.0	3978.0	3544.5	2980.7	2916.9	2424.9
15°	4716.7	4728.7	4769.9	4803.8	4824.4	4718.7	4453.4	3989.3	3327.8	3251.3	2629.0
17.5°	4838.4	4851.7	4922.8	5025.2	5119.6	5109.0	4898.2	4413.5	3660.9	3587.1	2848.4
20°	4943.5	4953.4	5033.2	5156.2	5323.1	5396.9	5278.6	4821.8	4025.9	3938.1	3081.1
22.5°	5248.0	5260.6	5284.5	5354.4	5502.0	5637.6	5580.4	5208.1	4360.3	4278.6	3301.8
25°	5835.7	5851.0	5799.2	5740.0	5767.9	5862.3	5873.0	5560.5	4699.4	4607.0	3539.2
27.5°	6543.8	6565.8	6477.4	6325.1	6192.1	6155.5	6142.9	5849.0	5023.2	4916.2	3773.9
30°	7237.3	7275.2	7160.2	6962.7	6718.7	6547.2	6420.2	6131.6	5342.4	5240.0	3995.3
32.5°	7914.8	7899.5	7732.7	7539.8	7253.9	7039.2	6732.0	6434.8	5701.4	5583.7	4215.4
35°	8378.9	8384.3	8229.3	8000.6	7728.0	7563.1	7149.6	6761.9	6067.8	5959.4	4465.4
37.5°	8773.9	8749.3	8573.7	8360.3	8125.6	8055.1	7638.2	7122.3	6464.7	6346.4	4731.4
40°	8905.5	8876.9	8761.9	8608.3	8420.2	8414.2	8177.5	7530.5	6913.5	6796.5	5031.2
42.5°	8825.7	8789.2	8742.0	8700.1	8642.2	8668.8	8684.1	8009.3	7406.9	7275.9	5378.3
45°	8531.2	8476.0	8509.3	8600.3	8726.0	8876.3	9141.6	8539.2	7959.4	7849.7	5785.9
47.5°	8078.4	8028.5	8132.3	8327.1	8668.8	9049.1	9574.4	9124.3	8619.0	8509.9	6366.3
50°	7441.4	7456.1	7604.3	7958.7	8475.3	9128.9	10107.6	9898.9	9577.7	9476.0	7158.2
52.5°	6396.2	6398.9	6816.4	7398.2	8132.3	9087.7	10403.5	10888.9	10886.9	10763.9	7912.2
55°	5425.5	5484.7	5815.1	6588.4	7576.4	8922.8	10610.3	11370.3	11746.6	11602.3	8615.0
57.5°	4477.4	4511.9	4825.1	5601.7	6783.2	8483.3	10822.4	11948.1	12737.3	12646.2	9488.6
60°	3398.9	3452.1	3775.9	4493.3	5768.6	7703.4	10842.3	12551.1	13921.5	13829.7	10464.0
62.5°	2206.1	2297.9	2601.0	3273.3	4541.2	6581.7	10379.6	12945.4	15043.8	15011.2	11329.7
65°	1267.9	1337.1	1547.9	2066.5	3133.0	5173.5	9279.2	12793.8	15734.6	15716.0	11653.5
66°	1035.9	1079.1	1240.7	1615.0	2585.1	4543.2	8639.6	12474.0	15803.1	15803.8	11616.3
67.5°	828.5	847.7	920.2	1156.2	1907.6	3601.0	7496.6	11768.5	15718.0	15741.3	11376.3
70°	685.5	695.5	718.1	775.3	1041.2	2171.5	5321.1	9935.4	14863.6	14881.6	10439.4
72.5°	615.0	621.0	629.7	637.6	734.7	1213.4	3250.0	7948.1	13031.8	13055.1	9011.9
75°	557.2	560.5	559.2	559.8	616.4	773.3	1679.5	5934.1	10537.2	10490.6	6903.5
77.5°	489.4	492.7	486.0	487.4	545.2	594.4	835.8	4154.2	7111.0	6782.5	3889.6
80°	413.6	416.2	413.6	418.2	474.7	448.8	486.0	2337.1	3144.3	2974.0	1383.0
82.5°	312.5	323.8	331.8	350.4	391.0	319.1	325.1	910.2	957.4	911.6	424.2
85°	137.0	166.9	250.0	268.0	293.9	191.5	213.4	371.0	389.6	377.7	154.3
87.5°	35.9	39.2	123.7	155.6	162.9	86.4	111.0	168.9	178.2	168.9	51.2
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°	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6	1788.6
2.5°	1808.5	1775.9	1717.4	1665.5	1626.3	1599.7	1573.1	1559.8	1551.9	1543.9	1545.2
5°	1866.3	1800.5	1700.1	1629.0	1589.1	1563.8	1550.5	1545.2	1541.9	1533.9	1533.9
7.5°	1953.4	1860.4	1722.1	1648.9	1617.7	1598.4	1590.4	1587.8	1583.8	1574.5	1575.8
10°	2063.2	1932.8	1767.9	1696.8	1668.2	1646.9	1635.6	1631.6	1624.3	1613.7	1615.0
12.5°	2192.1	2022.6	1828.4	1754.0	1719.4	1690.8	1672.2	1660.9	1648.3	1634.3	1635.0
15°	2333.1	2120.3	1893.6	1805.2	1758.0	1718.1	1688.2	1668.9	1648.9	1631.6	1631.0
17.5°	2476.0	2214.7	1943.5	1833.1	1769.3	1716.7	1676.2	1646.3	1621.7	1600.4	1598.4
20°	2630.3	2299.9	1971.4	1830.4	1748.0	1685.5	1631.6	1594.4	1567.1	1545.9	1542.5
22.5°	2787.2	2379.6	1976.1	1803.2	1700.8	1624.3	1567.8	1526.6	1498.7	1476.7	1468.7
25°	2930.8	2441.5	1956.8	1750.7	1635.0	1552.5	1497.3	1455.4	1432.8	1406.9	1398.9
27.5°	3061.8	2484.7	1918.2	1683.5	1561.2	1480.0	1428.2	1392.3	1367.7	1347.7	1341.1
30°	3179.5	2508.0	1855.0	1603.7	1485.4	1411.6	1367.7	1343.1	1321.8	1296.5	1291.9
32.5°	3291.2	2508.0	1773.9	1516.6	1410.2	1351.1	1325.1	1309.8	1285.9	1261.3	1254.6
35°	3402.9	2492.7	1678.2	1425.5	1341.1	1307.8	1306.5	1288.6	1252.0	1218.7	1210.1
37.5°	3520.6	2461.4	1570.5	1340.4	1284.6	1288.6	1299.9	1260.0	1208.1	1160.9	1148.3
40°	3653.6	2418.2	1458.8	1266.6	1237.4	1279.9	1281.9	1218.7	1117.7	1074.5	1063.2
42.5°	3809.8	2375.0	1355.0	1201.5	1200.1	1254.0	1248.0	1129.6	1069.1	1047.2	1041.2
45°	4015.3	2350.4	1256.6	1139.6	1170.9	1212.1	1190.2	1080.4	1055.2	1042.5	1037.2
47.5°	4339.1	2363.0	1166.2	1090.4	1141.6	1170.2	1082.4	1060.5	1042.5	1027.3	1021.9
50°	4744.7	2355.7	1093.1	1056.5	1108.4	1126.3	1033.9	1034.6	1025.3	1008.0	1000.0
52.5°	5049.8	2298.5	1045.9	1037.2	1079.1	1048.5	1003.3	1009.3	1004.6	979.4	970.7
55°	5344.4	2249.3	1021.9	1029.9	1057.8	951.5	967.4	982.0	977.4	952.8	948.8
57.5°	5710.7	2240.0	1007.3	1031.9	1039.9	902.9	932.8	952.1	948.8	938.2	936.2
60°	6159.5	2242.7	994.0	1035.2	1019.9	867.0	900.3	924.9	926.9	924.9	923.5
62.5°	6406.2	2170.2	960.8	1025.9	984.7	835.8	866.4	902.3	902.9	906.9	906.2
65°	6196.8	1953.4	898.9	993.3	925.5	809.8	837.1	876.3	866.4	884.3	884.3
66°	5993.3	1828.4	868.3	972.1	900.3	799.9	827.8	863.0	850.4	875.0	875.0
67.5°	5577.8	1617.7	813.2	926.9	864.4	785.9	817.1	841.1	823.8	860.4	857.7
70°	4818.5	1251.3	702.1	824.5	805.2	765.3	802.5	797.2	771.9	827.8	817.1
72.5°	4062.5	950.8	563.8	690.2	715.4	739.4	781.9	741.4	709.4	748.7	725.4
75°	3152.2	714.8	445.5	536.6	604.4	698.8	757.3	676.9	631.0	627.0	614.4
77.5°	1704.1	490.7	353.1	409.6	480.1	648.3	740.7	607.7	538.6	522.6	512.6
80°	674.9	319.1	256.6	310.5	335.8	575.1	700.8	527.3	444.1	428.2	412.9
82.5°	278.6	188.8	165.6	208.1	218.7	492.0	629.0	432.2	343.1	474.7	504.0
85°	119.7	103.7	98.4	107.7	123.7	345.1	500.7	329.8	370.3	330.4	262.6
87.5°	35.9	43.9	41.9	41.2	45.2	82.4	266.6	183.5	271.9	103.1	77.1
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)