

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: P193200

Luminaire Tested: **GAN-AF-02-LED-U-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12924.3 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

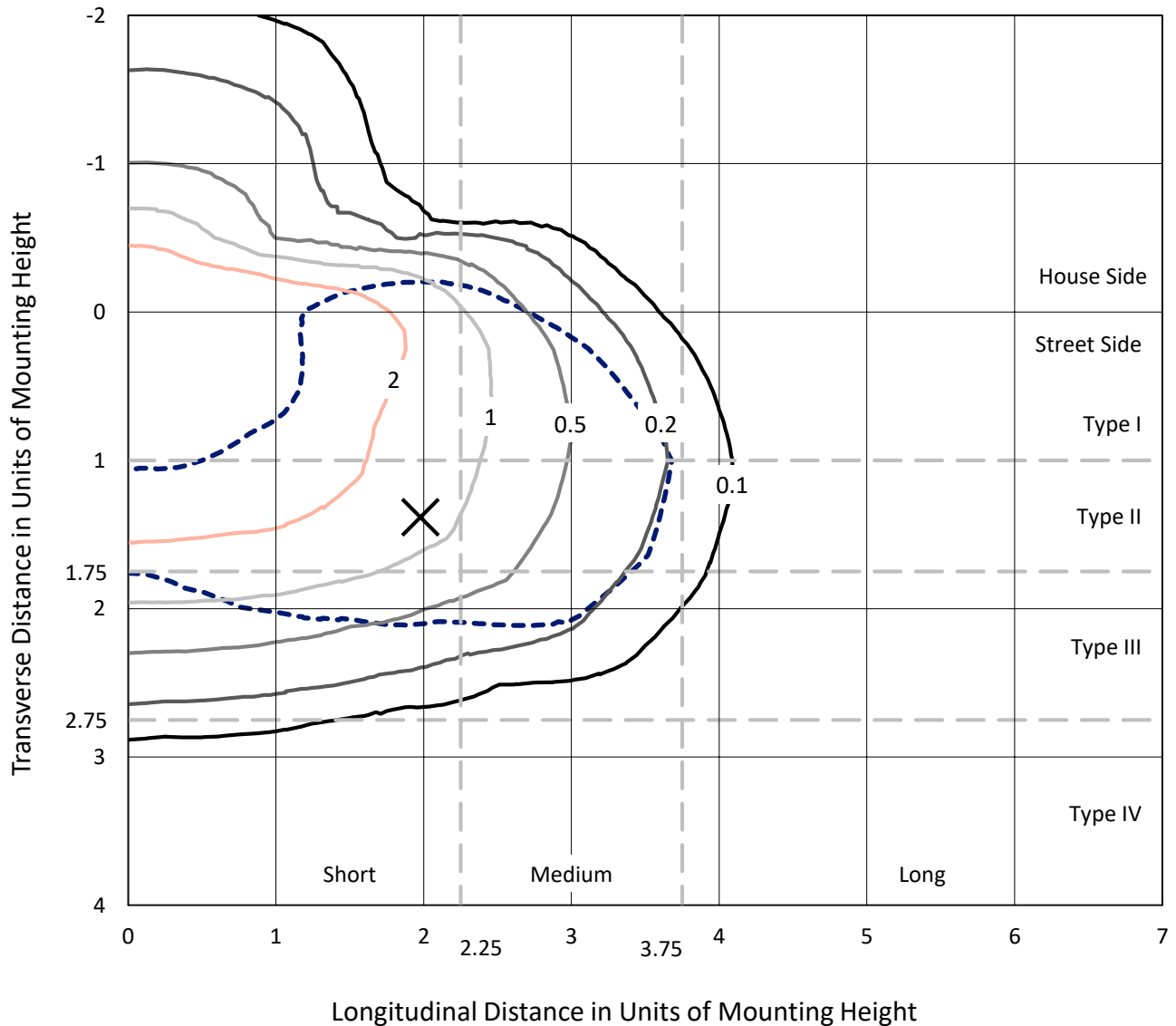
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

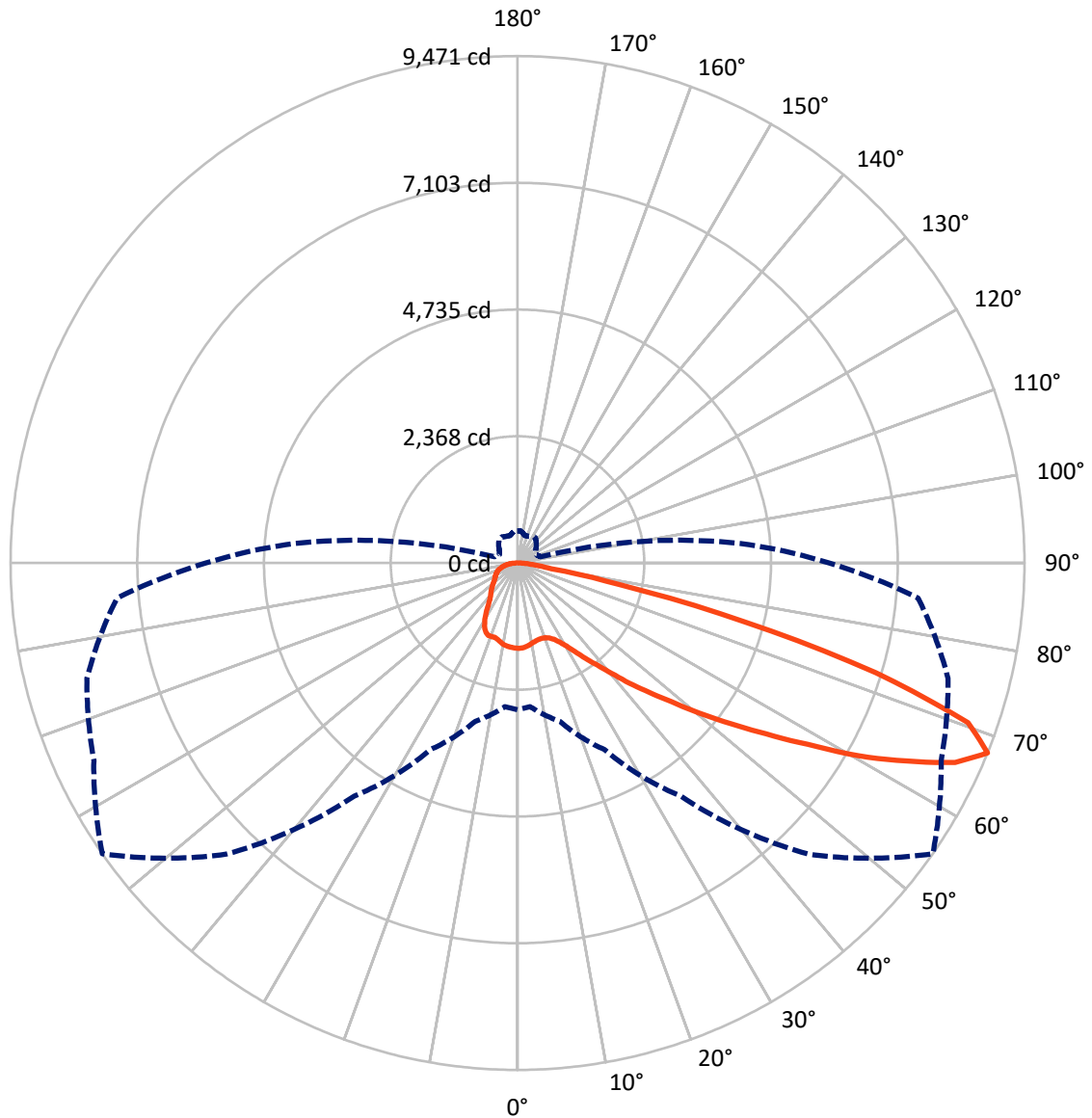
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2791.9	0.0	2791.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	10132.4	0.0	10132.4
	% Fixture	78.4	0.0	78.4
Total	Lumens	12924.3	0.0	12924.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.8	1.2
10°-20°	421.3	3.3
20°-30°	705.7	5.5
30°-40°	1160.5	9.0
40°-50°	1953.5	15.1
50°-60°	3074.7	23.8
60°-70°	3669.3	28.4
70°-80°	1575.7	12.2
80°-90°	214.8	1.7
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°	12924.3	100.0
0°-180°	12924.3	100.0

Coefficient of Utilization



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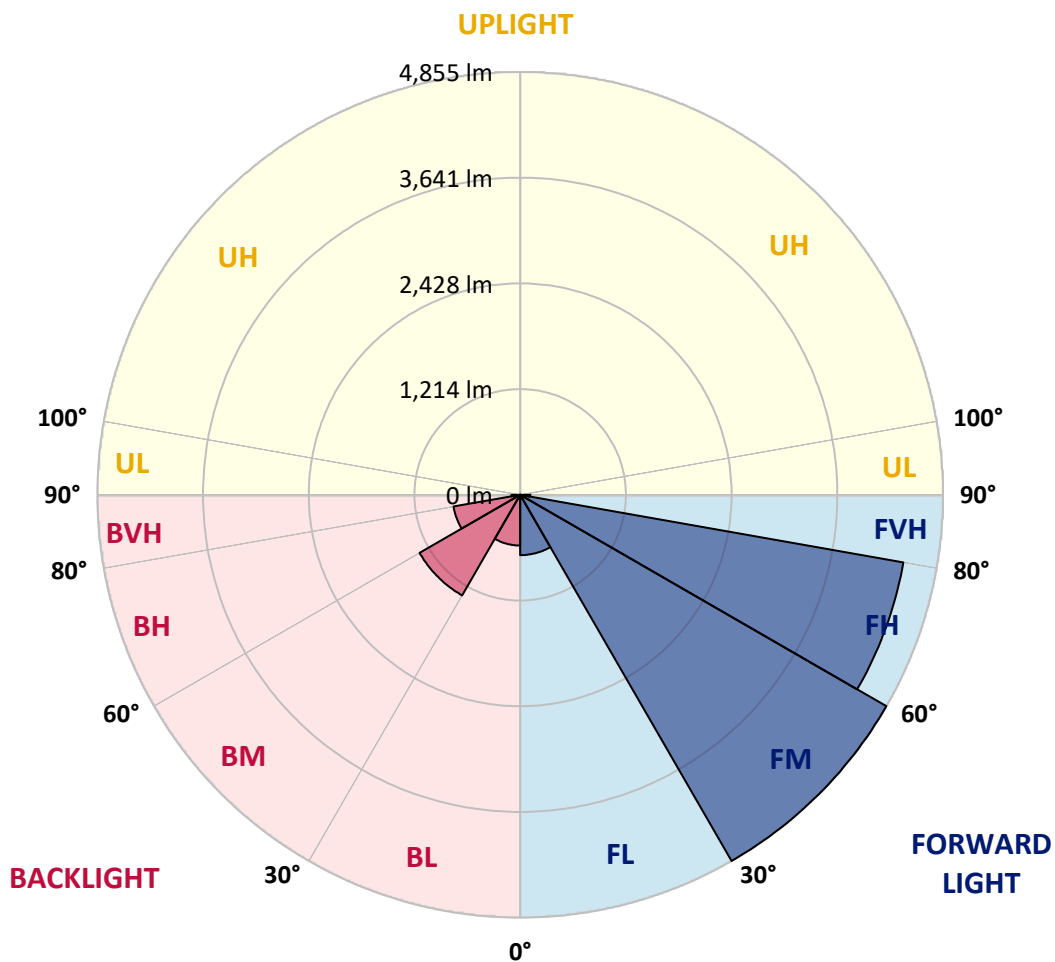
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.8	5.4			
FM	(30°-60°)	4855.3	37.6			
FH	(60°-80°)	4468.0	34.6			G2/5000
FVH	(80°-90°)	116.3	0.9			G2/225
BL	(0°-30°)	583.0	4.5	B2/1000		
BM	(30°-60°)	1333.4	10.3	B2/2500		
BH	(60°-80°)	777.0	6.0	B2/1000		G2/1000
BVH	(80°-90°)	98.5	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6
2.5°	1580.0	1580.6	1581.8	1586.9	1591.3	1589.9	1590.6	1588.1	1587.4	1583.7	1587.4
5°	1560.0	1561.9	1562.5	1570.6	1575.6	1576.8	1575.0	1571.8	1568.1	1564.4	1566.2
7.5°	1514.5	1519.5	1520.1	1531.3	1539.4	1550.1	1550.6	1551.3	1549.4	1546.9	1550.6
10°	1485.7	1486.9	1486.4	1494.4	1500.6	1512.5	1519.5	1531.3	1536.3	1537.5	1540.0
12.5°	1483.8	1482.5	1480.7	1480.7	1478.9	1483.8	1496.3	1513.1	1525.0	1528.7	1532.0
15°	1503.9	1503.2	1497.0	1487.6	1475.8	1471.9	1482.5	1501.3	1516.9	1525.0	1528.2
17.5°	1548.7	1545.0	1535.0	1513.8	1488.2	1478.2	1479.5	1495.1	1513.1	1523.8	1526.9
20°	1631.1	1631.1	1609.9	1569.9	1524.3	1500.6	1489.4	1498.8	1516.3	1530.6	1535.0
22.5°	1773.5	1774.7	1739.2	1673.7	1596.9	1546.2	1518.1	1516.3	1537.0	1553.1	1558.1
25°	1975.1	1970.2	1920.2	1826.6	1709.8	1626.3	1577.4	1566.2	1583.7	1601.8	1608.1
27.5°	2209.9	2191.7	2132.4	2019.4	1868.4	1746.1	1671.1	1653.0	1669.8	1690.5	1696.7
30°	2442.1	2423.4	2352.8	2229.2	2061.2	1906.5	1799.1	1769.8	1793.5	1822.8	1826.6
32.5°	2674.2	2674.2	2595.7	2451.4	2268.5	2098.1	1969.5	1934.6	1973.9	2009.5	2017.6
35°	2952.0	2953.3	2877.2	2703.6	2507.0	2326.5	2184.8	2159.3	2218.6	2243.5	2262.9
37.5°	3293.5	3300.4	3202.4	2992.6	2777.3	2587.5	2419.0	2384.0	2443.2	2511.4	2573.8
40°	3662.5	3671.2	3563.2	3304.8	3089.5	2890.9	2708.6	2645.6	2744.1	2874.1	2954.6
42.5°	4014.5	4059.5	3955.1	3689.3	3457.7	3252.3	3067.6	2975.7	3099.3	3295.4	3365.3
45°	4523.4	4555.8	4374.0	4133.2	3915.3	3685.6	3440.9	3344.1	3517.0	3764.2	3778.6
47.5°	4862.2	4837.9	4745.5	4595.7	4457.8	4243.0	3874.7	3768.6	3998.4	4289.2	4208.6
50°	5042.7	5050.2	5037.7	5046.4	5051.4	4916.5	4406.5	4261.1	4535.2	4886.6	4701.2
52.5°	5211.2	5161.3	5202.5	5407.2	5654.3	5604.5	4985.3	4833.5	5110.7	5549.6	5221.8
55°	5207.6	5131.4	5265.5	5627.0	6163.2	6220.6	5635.0	5460.3	5719.4	6260.5	5773.7
57.5°	5023.3	5027.0	5233.7	5706.8	6517.8	6800.0	6389.2	6127.0	6364.8	6981.0	6277.4
60°	4769.9	4804.2	5102.0	5693.7	6801.8	7275.0	7314.4	6845.5	6997.2	7635.8	6694.5
62.5°	4361.0	4397.2	4808.0	5557.7	6758.8	7732.6	8150.8	7660.8	7658.3	8032.8	6816.8
65°	3716.1	3705.5	4136.9	5048.9	6397.2	8070.9	8981.6	8365.6	8156.4	8039.1	6570.9
67.5°	2740.4	2693.0	3063.2	3845.4	5317.3	7692.0	9470.5	8732.6	8326.2	7510.4	5819.2
70°	1422.0	1374.6	1674.2	2245.4	3497.1	6003.4	8929.2	8542.9	7951.1	6295.5	4558.9
72.5°	608.0	600.0	721.6	985.1	1691.7	3462.8	7001.6	7394.2	6822.3	4690.6	3134.3
75°	408.8	406.3	452.0	536.9	761.0	1405.2	4381.7	5248.7	4991.5	2908.4	1762.9
77.5°	320.9	317.7	344.6	385.8	493.2	554.4	1944.5	2817.9	2608.1	1266.0	771.6
80°	251.0	248.4	265.3	287.8	354.5	349.6	639.8	1121.1	867.7	485.0	375.2
82.5°	197.9	197.9	211.6	212.3	251.7	238.5	334.0	493.8	433.2	282.8	229.8
85°	181.1	181.1	195.3	158.5	164.2	150.4	207.3	292.9	274.7	116.2	99.9
87.5°	91.1	88.6	164.2	140.5	89.3	79.9	101.2	141.7	152.3	64.3	49.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6	1593.6
2.5°	1586.2	1585.6	1586.9	1587.4	1592.5	1599.3	1602.4	1606.7	1609.3	1608.1
5°	1567.5	1568.8	1573.8	1577.4	1586.2	1597.5	1603.7	1608.8	1613.1	1611.1
7.5°	1551.9	1555.0	1562.5	1565.5	1570.6	1573.8	1573.2	1575.0	1578.7	1574.3
10°	1543.2	1546.9	1552.5	1548.1	1536.3	1519.5	1503.9	1495.6	1498.2	1495.1
12.5°	1534.4	1539.4	1535.0	1514.5	1481.3	1459.4	1447.6	1448.9	1454.5	1455.8
15°	1529.4	1531.3	1512.5	1473.8	1440.1	1437.0	1443.4	1442.0	1442.7	1442.7
17.5°	1529.4	1524.3	1489.4	1450.8	1436.4	1430.8	1411.4	1387.0	1376.4	1372.8
20°	1537.5	1524.3	1482.0	1456.3	1425.2	1377.1	1325.9	1280.9	1261.0	1255.4
22.5°	1561.9	1539.4	1503.2	1458.8	1370.2	1289.7	1208.5	1154.9	1118.7	1112.4
25°	1611.1	1586.2	1545.0	1425.9	1282.8	1168.0	1075.5	1015.7	979.4	974.5
27.5°	1697.4	1681.1	1567.5	1352.7	1166.7	1043.8	958.2	912.0	885.2	883.4
30°	1827.2	1819.0	1556.3	1244.8	1023.8	923.2	882.0	855.2	835.3	834.6
32.5°	2034.4	1968.9	1519.5	1113.1	893.3	837.7	820.9	804.7	789.1	789.1
35°	2301.0	2090.0	1449.6	972.0	814.0	790.3	769.0	743.5	722.9	721.6
37.5°	2614.3	2164.9	1324.0	858.3	776.7	758.5	727.2	689.2	653.0	646.7
40°	2930.9	2187.4	1147.3	788.5	752.8	726.6	688.6	643.6	608.7	606.7
42.5°	3221.1	2144.3	960.1	740.3	729.1	694.2	654.3	614.2	586.8	586.1
45°	3464.6	2032.5	802.8	694.8	704.1	664.9	629.3	596.8	575.6	571.2
47.5°	3693.7	1874.7	692.2	646.7	679.1	648.6	618.6	588.1	567.5	564.4
50°	3959.5	1704.2	614.9	600.0	657.3	643.0	627.3	595.6	561.1	557.4
52.5°	4281.8	1556.8	554.4	558.8	640.5	650.4	649.9	616.8	556.7	551.9
55°	4641.4	1393.3	508.7	525.0	633.6	664.2	655.4	636.8	560.6	553.1
57.5°	4995.3	1202.3	476.9	499.5	623.7	662.9	628.6	601.8	569.4	558.8
60°	5260.5	945.7	452.6	476.9	601.8	642.3	599.3	563.7	567.5	559.3
62.5°	5278.0	731.0	423.3	457.6	568.7	621.8	579.9	546.9	575.6	568.0
65°	4967.8	552.5	395.2	434.6	533.0	608.7	561.1	537.4	592.4	584.3
67.5°	4182.5	444.4	371.5	410.7	497.5	581.1	544.3	528.7	607.4	593.1
70°	3019.5	378.9	348.3	382.1	465.7	550.0	529.4	513.1	566.8	544.3
72.5°	1859.0	328.4	322.1	343.9	441.3	517.5	506.9	483.8	510.7	492.5
75°	928.2	284.6	292.9	306.5	407.0	480.6	469.5	446.4	450.0	446.4
77.5°	444.4	243.4	258.4	269.0	362.7	438.9	426.9	403.2	398.9	399.6
80°	281.6	203.5	217.9	225.4	324.0	390.2	378.2	354.5	404.5	375.2
82.5°	176.0	165.4	169.2	182.9	282.1	339.6	324.0	302.7	364.6	288.5
85°	97.4	115.5	120.5	132.3	217.2	284.1	268.4	241.6	216.7	212.8
87.5°	58.0	68.7	70.6	79.3	146.1	205.4	181.7	172.3	142.9	142.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)