

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: P317916

Luminaire Tested: **GAN-SA2B-830-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9500 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 85
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

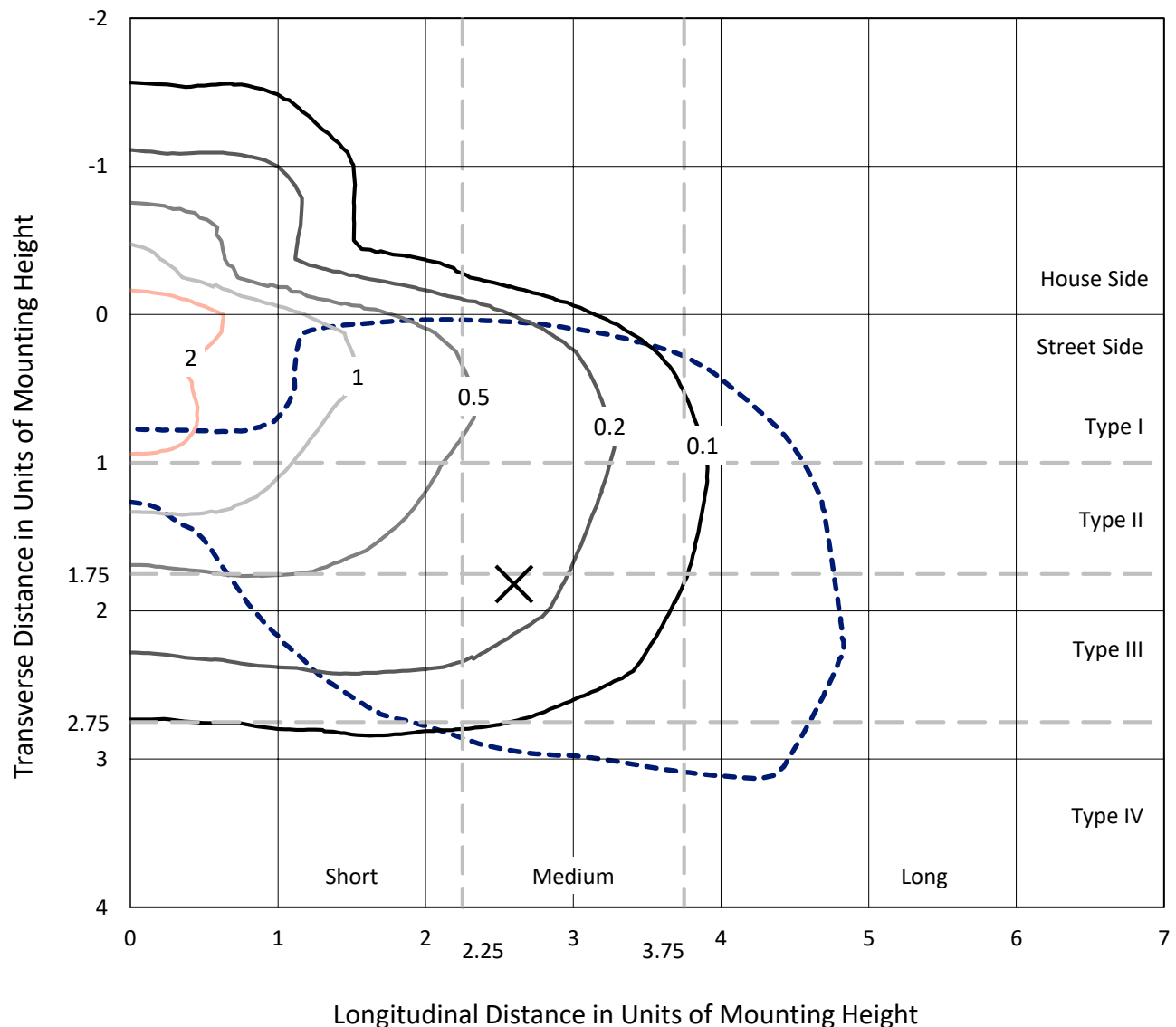


REPORT NUMBER: P317916

CATALOG NUMBER: GAN-SA2B-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

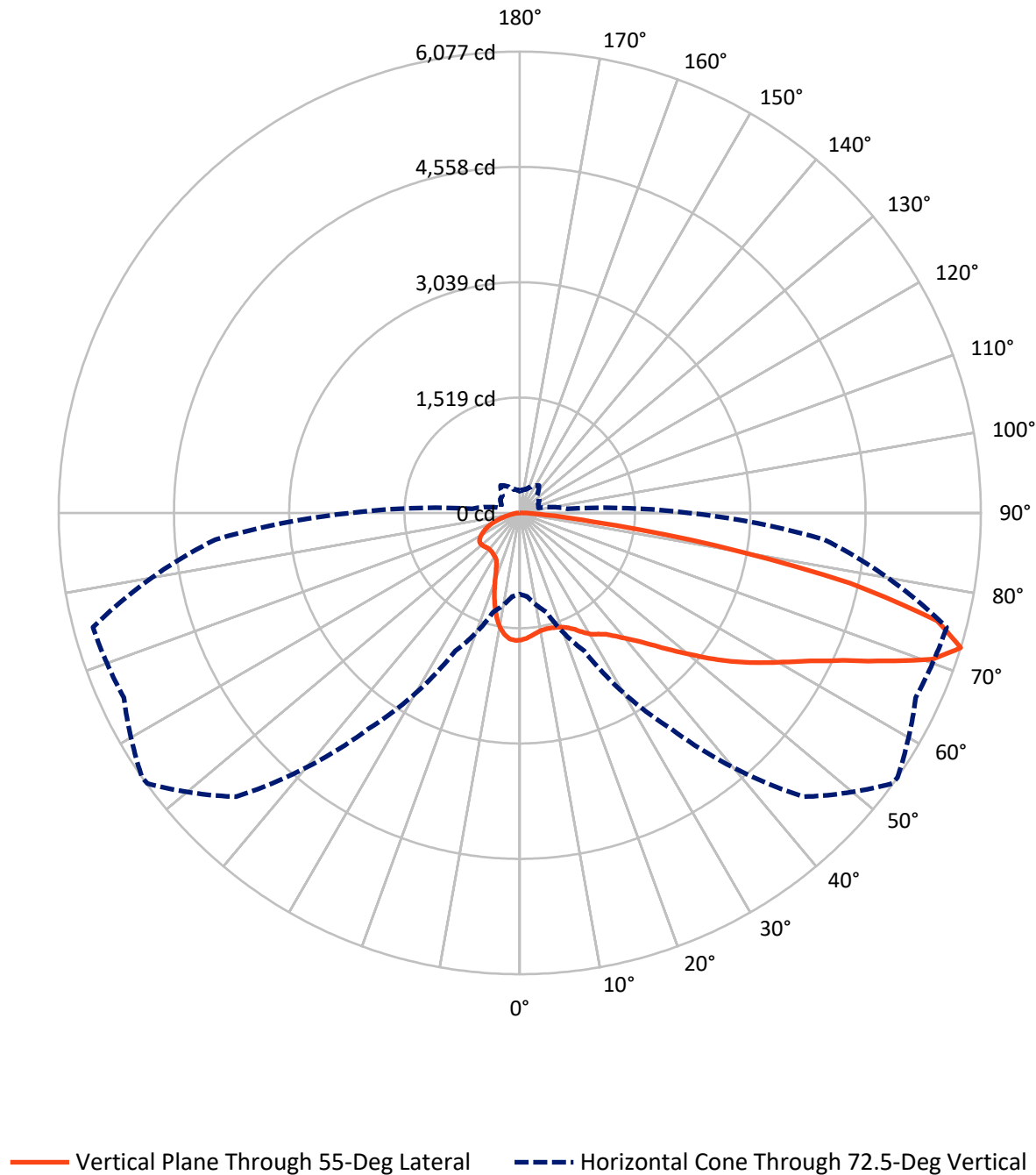
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Medium - N/A

REPORT NUMBER: P317916
CATALOG NUMBER: GAN-SA2B-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P317916

CATALOG NUMBER: GAN-SA2B-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1765.7	0.0	1765.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	7734.3	0.0	7734.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	9500.0	0.0	9500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.6	1.6
10°-20°	403.7	4.2
20°-30°	665.6	7.0
30°-40°	984.5	10.4
40°-50°	1374.2	14.5
50°-60°	1789.2	18.8
60°-70°	2198.9	23.1
70°-80°	1723.7	18.1
80°-90°	208.6	2.2
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°	9500.0	100.0
0°-180°	9500.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317916

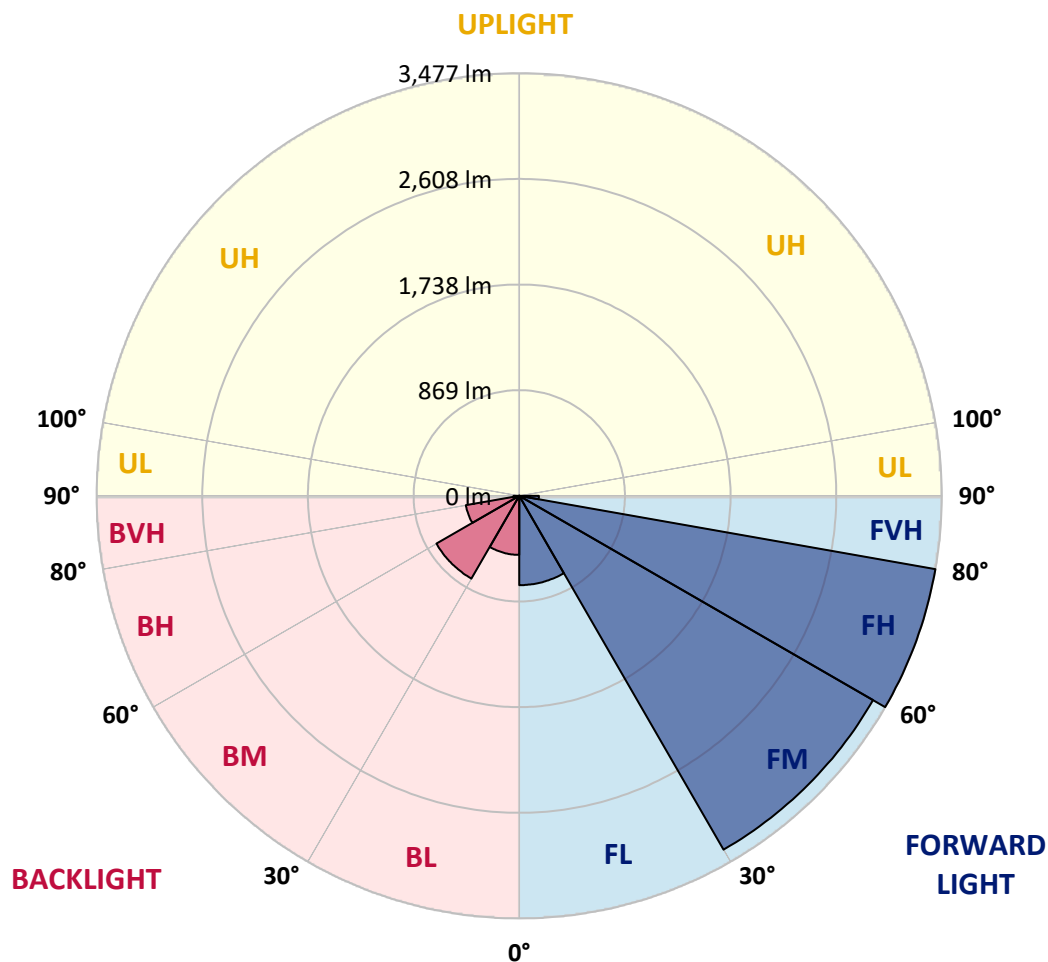
CATALOG NUMBER: GAN-SA2B-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.0	7.7			
FM	(30°-60°)	3361.3	35.4			
FH	(60°-80°)	3476.7	36.6			G2/5000
FVH	(80°-90°)	161.3	1.7			G2/225
BL	(0°-30°)	485.8	5.1	B1/500		
BM	(30°-60°)	786.7	8.3	B1/1000		
BH	(60°-80°)	445.9	4.7	B1/500		G1/500
BVH	(80°-90°)	47.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium





REPORT NUMBER: P317916

CATALOG NUMBER: GAN-SA2B-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6
2.5°	1621.0	1617.2	1622.0	1628.7	1636.1	1646.1	1651.9	1654.4	1664.4	1668.2	1676.6
5°	1546.0	1544.0	1552.1	1563.6	1580.0	1603.1	1621.7	1625.2	1651.5	1670.1	1687.1
7.5°	1491.4	1491.4	1500.7	1514.5	1532.8	1563.9	1590.2	1595.1	1639.7	1679.8	1711.2
10°	1448.1	1449.7	1460.6	1477.0	1498.5	1531.5	1566.5	1572.0	1636.4	1702.2	1752.3
12.5°	1419.2	1423.1	1433.0	1447.8	1474.4	1514.5	1558.8	1566.2	1643.2	1734.3	1801.7
15°	1437.5	1443.9	1444.9	1451.0	1465.7	1509.4	1563.3	1571.0	1657.6	1767.0	1857.9
17.5°	1517.7	1520.0	1510.0	1497.2	1490.1	1518.0	1576.8	1584.8	1675.0	1799.5	1911.8
20°	1639.7	1638.4	1616.9	1582.2	1546.3	1550.8	1598.9	1607.2	1698.4	1828.0	1965.7
22.5°	1793.7	1789.2	1756.1	1692.3	1631.0	1605.3	1637.7	1644.8	1733.7	1868.8	2023.4
25°	1980.4	1970.5	1926.8	1841.2	1751.0	1684.9	1696.1	1702.9	1785.0	1914.3	2076.4
27.5°	2177.4	2167.5	2112.0	2008.3	1888.3	1785.3	1776.7	1782.4	1843.4	1948.0	2115.5
30°	2383.4	2372.9	2322.2	2206.0	2034.0	1889.3	1851.8	1854.0	1884.5	1966.3	2147.6
32.5°	2590.4	2580.5	2523.7	2388.9	2192.2	2001.0	1906.0	1903.1	1909.2	1985.2	2183.9
35°	2800.3	2804.1	2737.7	2588.5	2367.4	2125.1	1970.2	1964.1	1950.6	2024.1	2235.2
37.5°	3024.9	3022.3	2936.3	2780.4	2550.6	2259.9	2062.2	2061.3	2014.8	2097.5	2315.7
40°	3175.0	3176.6	3124.3	2976.7	2735.8	2409.1	2180.3	2178.1	2117.1	2207.6	2421.3
42.5°	3233.8	3244.3	3257.8	3164.1	2929.6	2582.1	2321.2	2318.0	2259.9	2365.5	2545.5
45°	3237.9	3259.1	3342.5	3330.7	3125.9	2780.0	2501.2	2492.2	2450.5	2575.3	2693.7
47.5°	3202.0	3223.8	3362.4	3429.8	3301.5	2988.9	2711.7	2704.6	2668.7	2837.8	2854.2
50°	3123.4	3144.2	3321.4	3478.3	3445.8	3189.8	2954.3	2935.7	2916.4	3141.0	3037.7
52.5°	2976.1	3016.2	3266.5	3489.8	3532.2	3368.2	3209.4	3197.2	3207.8	3460.9	3221.6
55°	2627.3	2672.2	3125.0	3480.2	3596.0	3518.0	3464.5	3463.8	3518.7	3796.6	3418.9
57.5°	2431.9	2463.7	2836.8	3463.8	3671.7	3666.9	3717.0	3723.1	3829.9	4162.0	3625.5
60°	2321.5	2354.9	2690.8	3403.2	3789.2	3859.5	3974.6	3986.8	4146.3	4566.7	3874.2
62.5°	2221.1	2257.7	2600.3	3279.6	3927.5	4134.8	4283.3	4294.2	4481.3	4982.5	4114.5
65°	2049.4	2090.8	2467.8	3198.5	4053.3	4493.8	4675.8	4683.1	4866.0	5418.3	4298.4
67.5°	1806.8	1844.7	2217.9	3019.1	4146.3	4929.9	5197.5	5201.7	5247.5	5726.0	4392.4
70°	1523.5	1537.9	1861.7	2648.8	4036.3	5337.7	5769.3	5770.2	5595.4	5923.0	4377.0
72.5°	1070.4	1104.4	1351.5	2005.1	3468.6	5288.0	6066.1	6077.0	5757.1	5823.5	4027.3
75°	656.5	692.4	847.7	1215.1	2200.5	4158.8	5604.7	5680.4	5453.9	5192.4	3289.9
77.5°	439.0	452.4	553.2	708.5	997.0	2392.7	4309.0	4451.5	4530.7	3786.6	2104.0
80°	244.8	270.5	366.8	440.2	443.4	950.7	2583.7	2617.0	2520.8	1507.8	649.1
82.5°	129.6	143.8	244.8	258.6	241.9	318.3	962.9	963.9	805.4	404.3	192.8
85°	100.4	112.3	167.8	157.9	123.5	141.2	317.7	335.0	274.0	165.6	62.9
87.5°	50.1	62.2	113.9	100.1	48.5	40.4	113.6	121.3	108.1	64.8	22.8
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: P317916

CATALOG NUMBER: GAN-SA2B-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6	1675.6
2.5°	1679.8	1682.7	1686.2	1682.3	1681.1	1675.9	1667.3	1665.3	1660.8	1661.2	1663.7
5°	1694.5	1699.3	1697.4	1682.7	1665.0	1640.3	1614.6	1592.8	1578.4	1577.4	1576.4
7.5°	1722.8	1726.0	1710.9	1668.9	1619.4	1562.3	1508.4	1461.3	1432.7	1425.6	1424.0
10°	1767.0	1766.4	1725.0	1640.3	1541.8	1439.8	1353.1	1287.7	1249.5	1238.2	1235.4
12.5°	1816.5	1809.1	1729.8	1588.3	1432.1	1290.5	1180.8	1108.0	1068.2	1055.3	1052.1
15°	1867.5	1849.2	1718.0	1510.7	1297.3	1129.8	1014.6	947.2	925.7	918.7	917.4
17.5°	1915.0	1879.7	1683.9	1405.4	1143.6	969.7	879.8	852.9	858.0	867.3	867.6
20°	1961.5	1900.2	1629.4	1272.6	981.5	837.8	807.3	827.2	851.6	870.5	873.1
22.5°	2007.4	1914.6	1559.1	1119.2	836.5	763.7	785.2	821.4	849.3	869.9	873.4
25°	2045.9	1918.2	1462.2	955.6	735.8	735.8	774.6	808.9	836.5	856.7	860.3
27.5°	2060.0	1894.4	1325.5	804.1	685.1	722.9	759.8	788.4	811.8	833.3	837.2
30°	2065.5	1850.5	1167.7	682.5	664.2	709.1	739.9	764.3	786.5	806.7	810.2
32.5°	2066.4	1797.5	1000.2	613.5	649.8	694.7	715.2	736.7	760.5	768.5	769.8
35°	2072.5	1735.0	823.7	578.2	636.3	681.2	697.6	713.0	674.5	677.4	679.9
37.5°	2090.2	1673.0	676.1	558.3	627.6	674.2	693.7	637.9	607.7	600.7	599.7
40°	2123.2	1606.9	566.7	542.3	624.4	677.7	669.0	595.5	543.6	504.7	499.0
42.5°	2169.1	1535.7	496.7	531.7	626.7	694.7	634.7	554.8	468.5	443.4	440.2
45°	2220.8	1460.9	458.8	524.3	634.4	707.8	627.6	500.6	433.5	414.6	413.0
47.5°	2270.8	1369.5	439.3	521.1	645.0	697.3	597.8	483.9	416.8	406.9	407.8
50°	2328.3	1287.0	427.4	517.6	654.3	690.5	564.1	475.2	410.4	422.6	435.4
52.5°	2376.7	1201.7	416.8	510.5	657.8	678.6	555.4	476.8	410.4	433.8	446.0
55°	2434.1	1137.2	404.6	495.7	651.1	645.0	549.3	486.4	415.2	400.4	401.7
57.5°	2508.3	1116.0	391.1	472.6	628.6	595.9	546.4	495.7	412.3	403.0	406.2
60°	2610.9	1138.5	385.7	442.5	593.6	557.4	546.8	490.9	392.1	376.1	376.4
62.5°	2708.8	1163.5	385.4	423.6	550.6	523.0	539.4	475.2	381.8	372.5	376.1
65°	2740.9	1138.1	370.0	402.4	502.2	482.0	525.9	458.5	374.1	360.0	359.4
67.5°	2697.9	1059.5	338.8	368.0	446.7	434.1	508.3	438.6	361.9	350.4	348.5
70°	2570.2	884.0	300.3	322.8	383.4	380.2	480.3	415.5	345.6	335.6	327.3
72.5°	2226.5	629.9	253.2	268.6	312.2	322.5	441.8	385.4	322.5	301.0	288.1
75°	1828.7	466.2	207.9	211.1	237.1	265.0	388.9	350.1	295.2	258.6	248.7
77.5°	1119.8	285.3	165.6	166.9	170.1	211.5	320.2	310.6	260.5	215.6	208.6
80°	362.6	155.6	119.7	125.8	116.2	155.0	247.7	264.4	223.6	180.3	172.6
82.5°	138.0	90.8	80.9	85.0	80.5	104.0	180.7	211.8	183.2	148.2	120.6
85°	66.7	51.3	47.8	53.6	49.7	53.3	115.5	155.9	138.9	96.6	89.8
87.5°	23.7	22.8	18.3	24.7	21.2	18.9	35.3	78.6	91.8	66.4	59.4
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)