

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: P317989

Luminaire Tested: **GAN-SA5A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19115 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

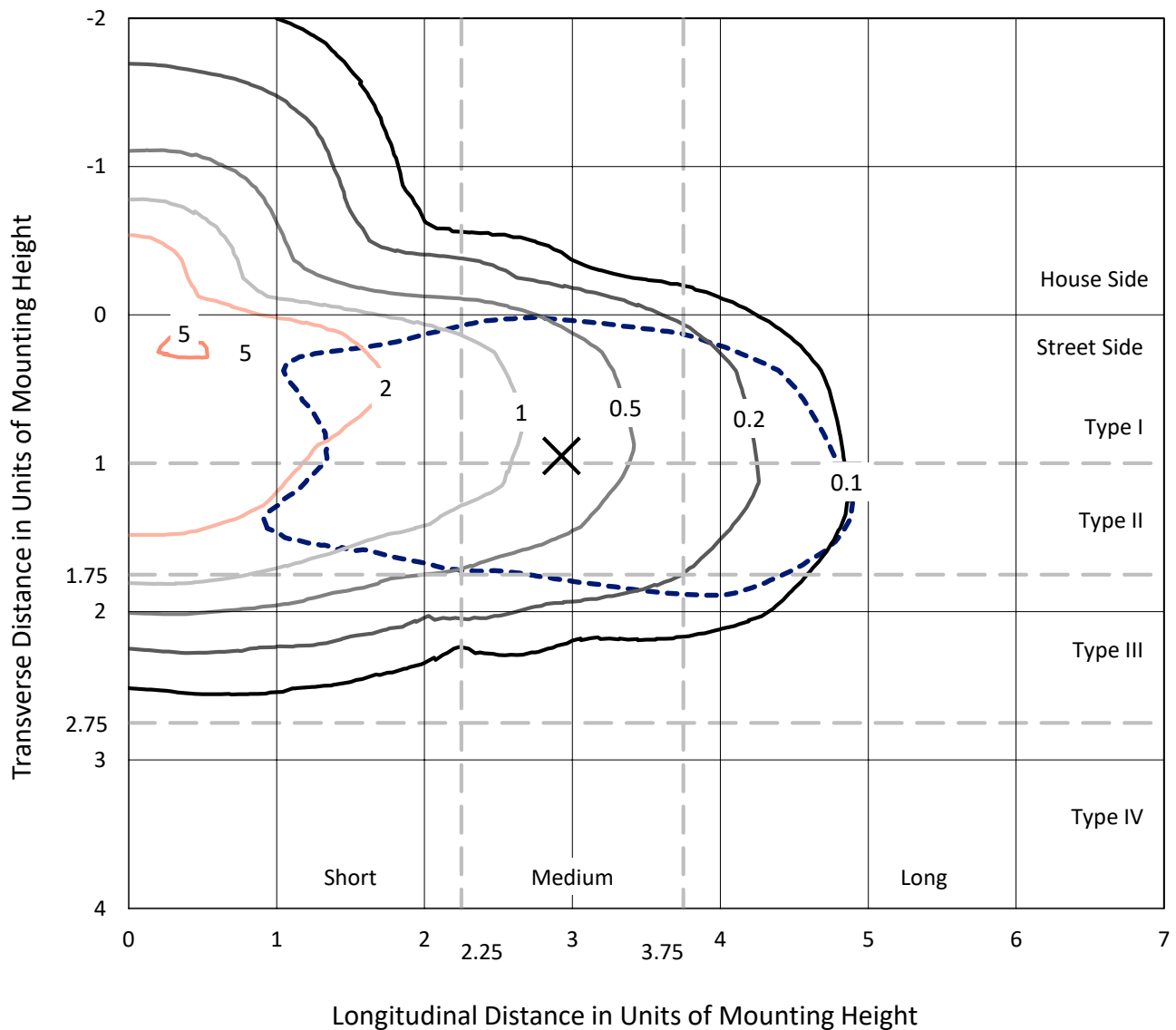
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

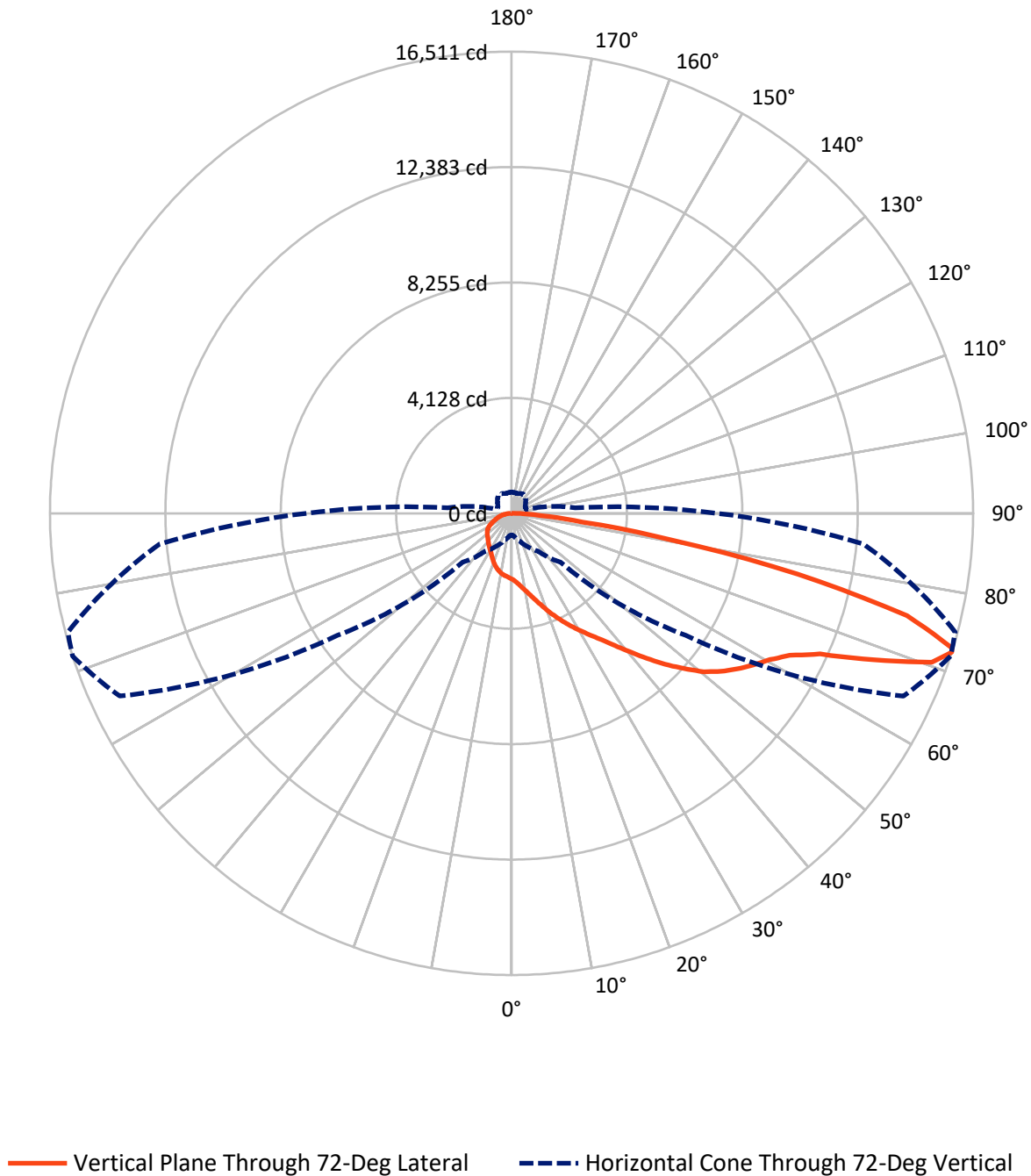
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3546.0	0.0	3546.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	15569.0	0.0	15569.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	19115.0	0.0	19115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	1.2
10°-20°	761.5	4.0
20°-30°	1334.4	7.0
30°-40°	1978.4	10.4
40°-50°	2893.6	15.1
50°-60°	3981.6	20.8
60°-70°	4432.7	23.2
70°-80°	3003.6	15.7
80°-90°	493.7	2.6
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°	19115.0	100.0
0°-180°	19115.0	100.0

Coefficient of Utilization



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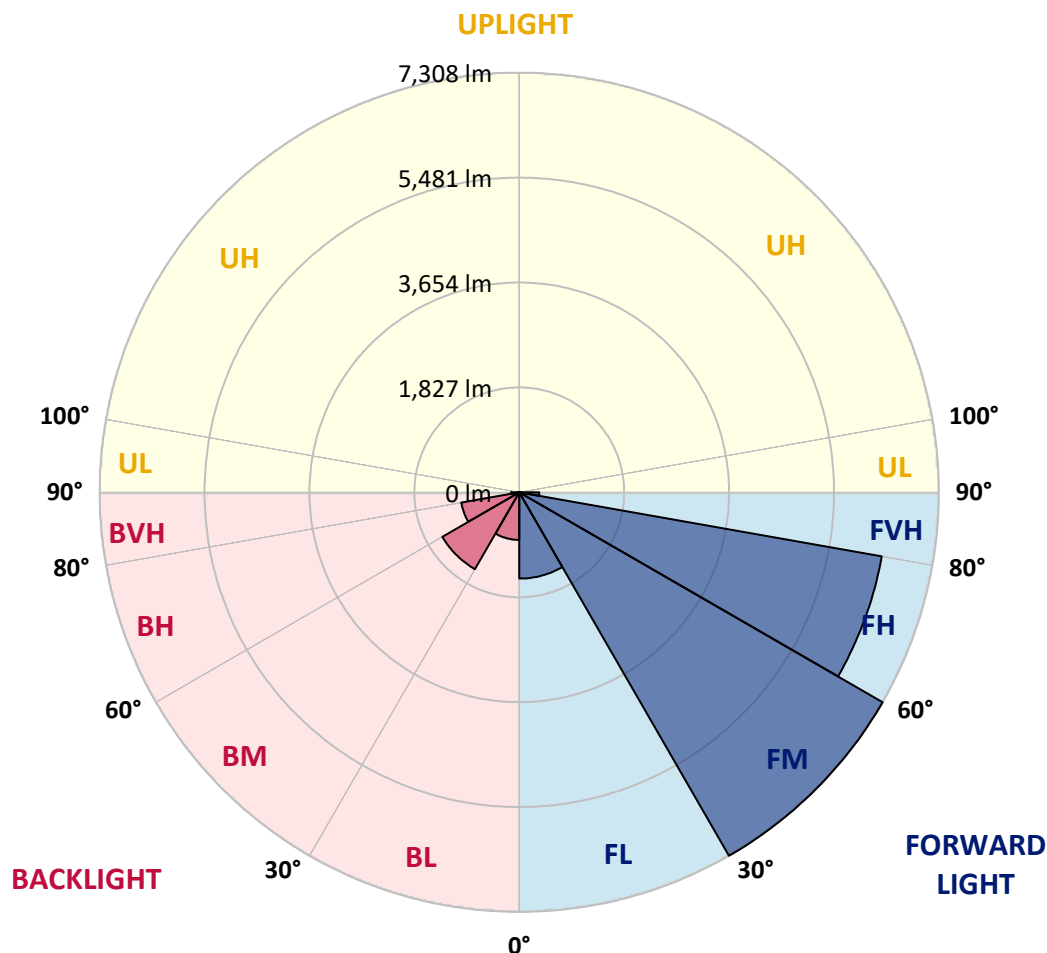
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1502.6	7.9			
FM	(30°-60°)	7307.9	38.2			
FH	(60°-80°)	6410.4	33.5			G3/7500
FVH	(80°-90°)	348.2	1.8			G3/500
BL	(0°-30°)	828.9	4.3	B2/1000		
BM	(30°-60°)	1545.7	8.1	B2/2500		
BH	(60°-80°)	1025.9	5.4	B3/2500		G3/2500
BVH	(80°-90°)	145.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2597.8	2593.9	2580.0	2580.0	2553.7	2531.3	2489.2	2460.9	2427.3	2415.5	2376.0
5°	2849.2	2850.5	2833.4	2821.6	2782.7	2735.4	2663.6	2598.5	2533.3	2507.0	2426.0
7.5°	3060.5	3057.9	3053.3	3043.4	3007.2	2958.5	2861.7	2765.0	2668.9	2629.4	2489.9
10°	3196.1	3202.0	3205.9	3210.6	3195.4	3160.5	3069.0	2951.2	2825.5	2771.6	2566.2
12.5°	3264.5	3275.1	3293.5	3325.1	3350.1	3346.1	3279.7	3154.6	3005.2	2937.4	2661.6
15°	3304.7	3318.5	3347.5	3404.1	3474.5	3514.6	3496.9	3383.7	3217.1	3133.6	2778.1
17.5°	3329.7	3340.9	3385.6	3461.3	3566.0	3672.6	3719.3	3624.5	3456.7	3361.3	2911.7
20°	3346.8	3355.4	3411.3	3500.2	3635.7	3805.5	3935.9	3912.2	3720.6	3596.9	3051.3
22.5°	3385.0	3392.2	3445.5	3535.0	3685.1	3904.3	4144.5	4180.0	3999.0	3858.9	3200.7
25°	3491.6	3491.6	3536.4	3598.9	3739.7	3989.8	4320.9	4478.2	4283.4	4120.1	3338.9
27.5°	3695.0	3693.0	3709.4	3731.2	3837.8	4076.7	4478.2	4741.5	4578.2	4399.9	3473.2
30°	3935.9	3949.0	3951.0	3940.5	3990.5	4185.3	4623.6	5019.2	4875.1	4682.9	3610.7
32.5°	4245.9	4254.4	4244.5	4209.7	4202.4	4339.3	4766.5	5310.1	5196.3	4978.4	3736.4
35°	4639.4	4623.0	4592.1	4521.0	4453.2	4545.3	4929.7	5601.0	5556.9	5335.8	3909.5
37.5°	5061.3	5062.0	5023.8	4862.6	4769.1	4808.6	5154.8	5930.8	5993.3	5761.0	4131.3
40°	5399.6	5417.4	5441.1	5229.2	5108.1	5162.7	5441.1	6313.2	6509.3	6265.1	4420.3
42.5°	5635.9	5656.3	5723.5	5590.5	5464.8	5566.1	5778.1	6721.2	7088.5	6846.9	4758.6
45°	5886.0	5897.2	5944.6	5887.3	5807.0	6035.4	6157.8	7143.8	7701.3	7466.9	5137.0
47.5°	6149.3	6161.1	6209.8	6171.7	6129.5	6473.8	6554.1	7542.0	8288.3	8148.2	5541.1
50°	6474.4	6482.3	6528.4	6459.3	6472.5	6804.2	6908.2	7907.3	8903.7	8760.3	5946.6
52.5°	6918.0	6920.0	6983.8	6921.3	6859.5	7046.4	7212.9	8251.5	9386.2	9318.4	6352.0
55°	7265.5	7286.6	7495.9	7482.7	7447.2	7266.2	7467.6	8579.3	9816.6	9848.9	6782.4
57.5°	7043.7	7126.0	7549.9	7848.7	8139.6	7813.1	7811.8	8948.5	10216.8	10369.5	7255.7
60°	6169.0	6280.9	6905.5	7568.3	8478.6	8764.9	8526.6	9399.3	10620.9	10885.5	7848.7
62.5°	4405.8	4590.1	5436.5	6494.8	8013.9	9395.4	9981.2	10114.8	11170.5	11483.1	8619.4
65°	2227.2	2366.8	3076.3	4351.2	6402.7	8983.4	11562.1	11681.2	12125.5	12403.2	9806.1
67.5°	1353.2	1405.9	1752.1	2420.1	3925.3	6997.7	12078.1	14292.2	13973.6	14121.1	11498.2
70°	997.1	1036.0	1251.8	1607.3	2257.5	4106.3	10494.5	16155.5	15946.2	15929.7	12748.8
72°	776.6	804.9	995.8	1298.6	1650.7	2463.5	7606.5	15467.7	16510.9	16427.9	12634.2
72.5°	736.5	761.5	935.3	1222.2	1559.9	2233.2	6839.1	15003.7	16470.1	16432.5	12486.2
75°	579.8	597.6	692.4	945.1	1220.9	1267.0	3747.6	11627.2	14610.7	15218.2	11230.4
77.5°	479.8	482.4	532.5	687.8	951.7	895.8	1840.9	8067.2	10462.3	11130.3	7955.3
80°	391.0	394.2	417.9	482.4	720.0	662.8	874.1	4638.8	5857.7	5865.0	3783.2
82.5°	311.3	312.0	338.3	352.8	517.3	473.9	500.9	2177.9	2559.6	2462.2	1359.8
85°	219.2	214.6	330.4	289.6	338.3	304.1	276.4	862.2	1058.3	1012.3	425.8
87.5°	73.1	75.7	146.8	187.6	197.5	172.4	123.1	330.4	399.5	396.2	134.9
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6	2351.6
2.5°	2363.5	2342.4	2311.5	2277.3	2250.3	2222.6	2202.2	2191.7	2179.9	2170.0	2181.8
5°	2388.5	2349.0	2283.2	2218.7	2171.3	2129.2	2098.9	2083.1	2068.6	2058.8	2060.1
7.5°	2429.3	2365.5	2254.9	2160.8	2095.0	2049.5	2018.6	2008.1	1998.9	1996.2	1999.5
10°	2472.7	2378.6	2217.4	2092.3	2017.3	1979.8	1966.0	1973.2	1979.8	1985.7	1992.3
12.5°	2522.1	2390.5	2162.7	2012.0	1948.2	1933.7	1947.5	1979.1	2002.2	2016.0	2024.5
15°	2586.6	2401.0	2099.6	1931.7	1888.9	1905.4	1952.1	2006.8	2046.9	2072.6	2076.5
17.5°	2645.8	2400.3	2018.6	1850.8	1840.9	1888.9	1959.4	2036.4	2090.3	2126.5	2133.8
20°	2707.1	2382.6	1924.5	1771.8	1792.2	1871.2	1962.7	2055.5	2120.6	2162.7	2172.6
22.5°	2764.3	2351.6	1821.2	1700.1	1751.4	1847.5	1950.2	2044.3	2109.4	2143.7	2154.2
25°	2803.1	2297.7	1716.5	1639.5	1715.2	1818.5	1909.4	1985.0	2033.7	2050.9	2053.5
27.5°	2822.9	2227.2	1617.8	1586.8	1677.7	1771.1	1833.7	1871.2	1885.0	1883.7	1881.1
30°	2825.5	2134.4	1532.9	1544.1	1634.2	1701.4	1731.0	1723.7	1706.0	1675.7	1678.3
32.5°	2817.0	2029.8	1461.8	1503.3	1579.0	1616.5	1617.8	1582.9	1535.5	1487.5	1474.3
35°	2819.6	1927.1	1399.3	1457.2	1511.8	1528.3	1513.1	1461.8	1397.3	1335.4	1322.3
37.5°	2848.6	1837.6	1345.3	1403.9	1437.4	1441.4	1419.7	1365.7	1318.3	1257.8	1252.5
40°	2917.7	1773.8	1294.0	1344.0	1363.1	1365.0	1334.1	1295.9	1299.9	1267.6	1267.0
42.5°	3042.1	1746.1	1248.5	1281.5	1293.3	1297.3	1273.6	1249.2	1283.4	1262.4	1255.1
45°	3202.7	1752.7	1210.4	1220.2	1242.0	1260.4	1245.9	1216.3	1229.5	1138.0	1107.7
47.5°	3388.3	1794.8	1180.1	1167.6	1205.1	1240.0	1217.6	1172.9	1126.1	1035.3	1018.2
50°	3605.5	1860.0	1152.5	1115.6	1165.0	1212.4	1190.0	1126.1	1055.7	1011.6	1005.7
52.5°	3831.9	1939.6	1124.8	1058.3	1114.3	1191.3	1180.1	1115.6	1028.7	985.3	977.4
55°	4088.6	2019.9	1089.9	991.9	1059.7	1181.4	1175.5	1077.4	1008.3	984.0	978.0
57.5°	4407.8	2111.4	1043.9	922.8	1008.3	1145.9	1127.4	1054.4	987.3	968.8	966.9
60°	4823.7	2246.3	977.4	849.0	945.8	1091.2	1087.3	1020.8	953.7	940.5	937.9
62.5°	5447.7	2469.5	885.9	775.3	876.0	998.4	1034.6	975.4	918.1	917.5	918.8
65°	6415.2	2805.1	786.5	710.8	805.6	920.1	973.4	928.7	881.9	895.1	897.1
67.5°	7536.7	3083.5	689.1	647.6	733.9	845.7	918.1	881.9	833.9	868.1	868.8
70°	7909.9	2834.7	603.5	585.1	659.5	774.0	858.3	830.6	781.9	816.1	812.8
72°	7361.0	2288.5	548.3	537.7	603.5	714.8	804.9	782.6	734.5	757.6	749.0
72.5°	7187.9	2181.8	534.4	525.9	588.4	699.6	791.1	770.7	722.7	742.4	734.5
75°	6411.9	1894.9	459.4	461.4	513.4	625.9	713.5	706.9	657.5	659.5	656.9
77.5°	4650.6	1389.4	387.0	400.2	437.0	550.2	635.1	631.2	577.2	567.3	565.4
80°	2158.1	708.8	315.3	321.2	359.4	460.1	541.7	536.4	493.0	480.5	473.2
82.5°	739.1	337.0	236.9	240.9	278.4	370.6	469.9	466.6	430.4	406.1	391.0
85°	263.9	167.8	165.9	161.9	198.8	291.6	409.4	391.6	338.3	288.3	287.0
87.5°	85.6	71.7	85.6	84.9	115.8	197.5	297.5	253.4	245.5	204.0	200.1
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)