

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: P322789

Luminaire Tested: **GAN-SA5A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14118 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

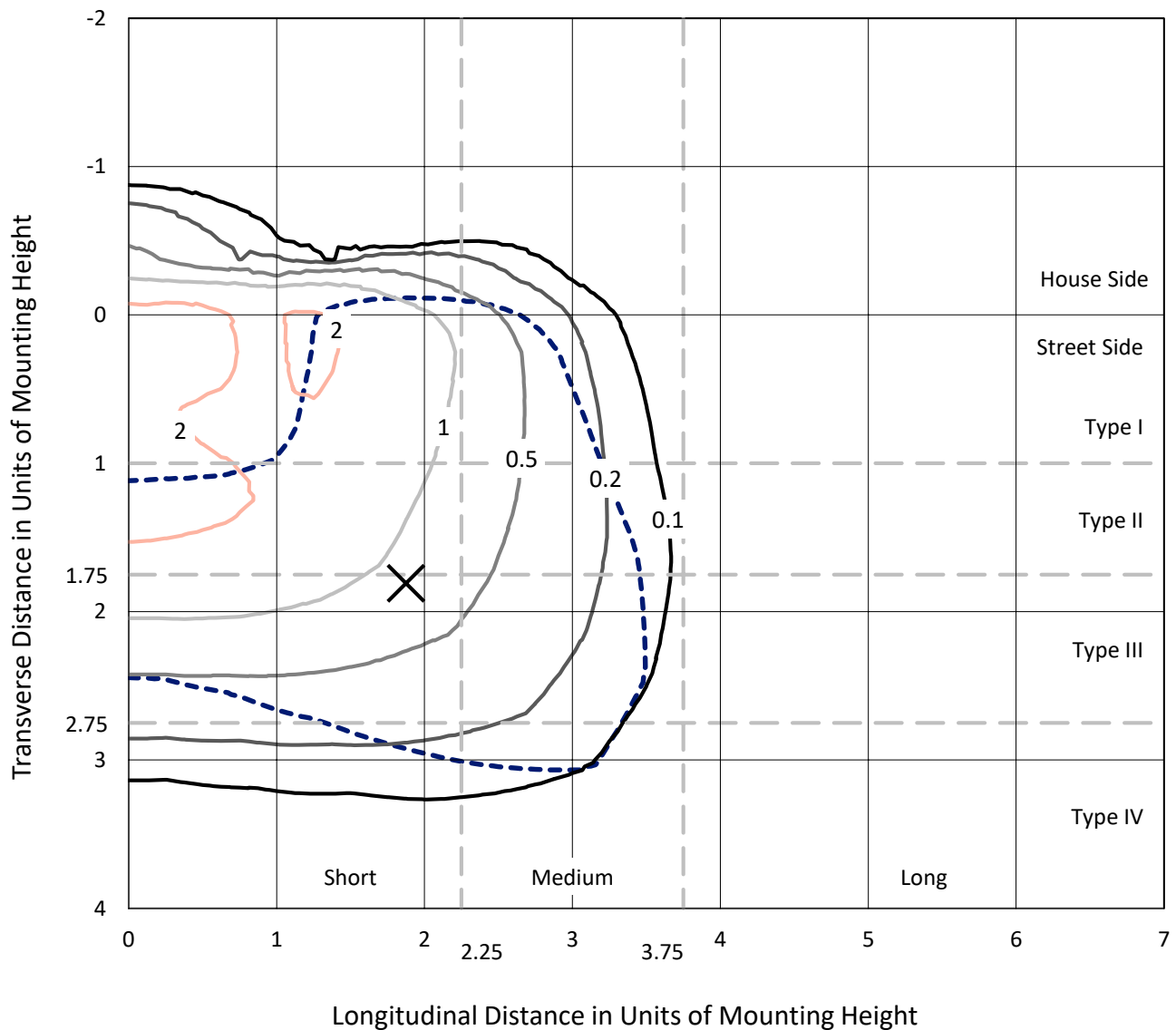
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

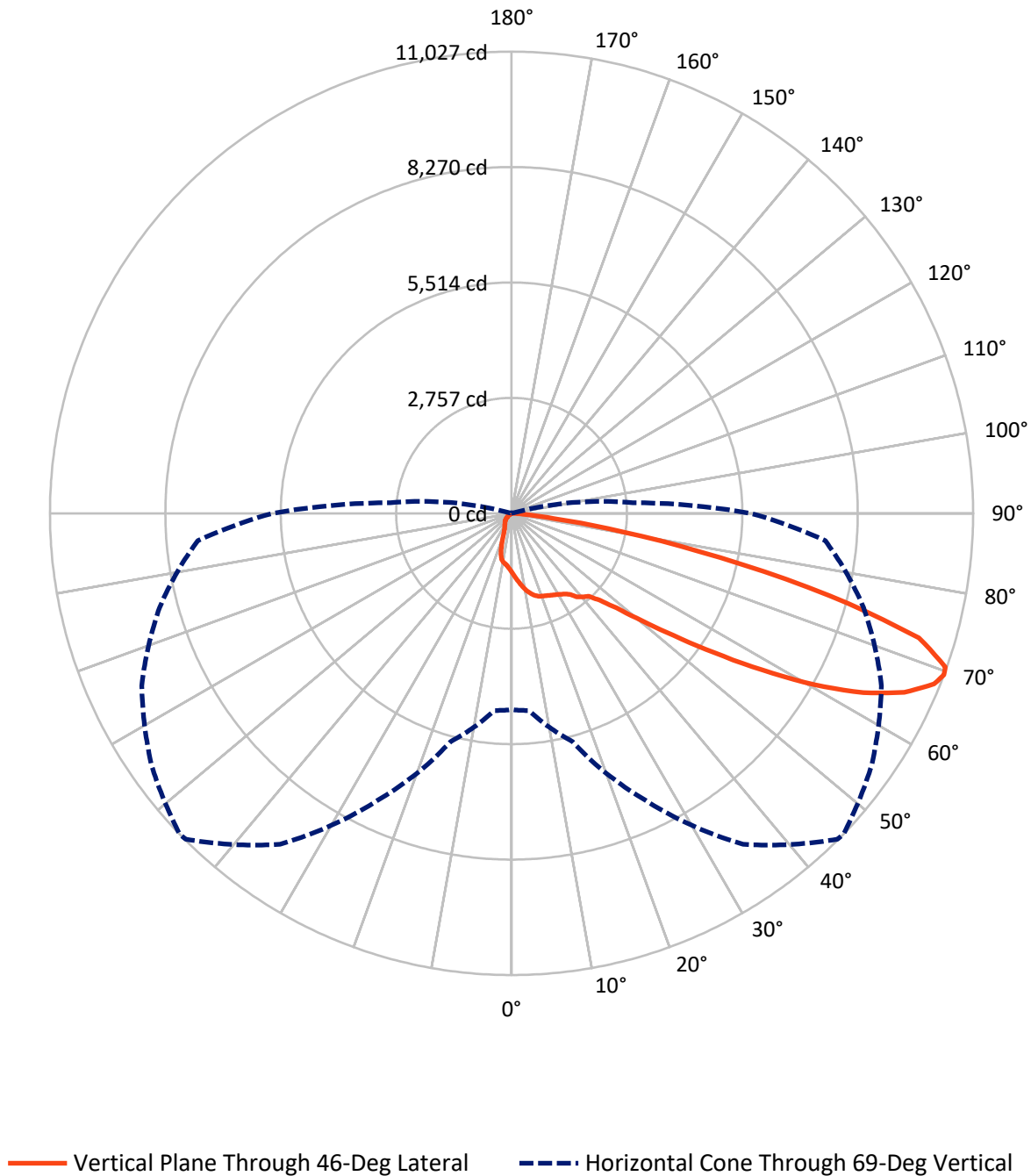
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1448.9	0.0	1448.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12669.1	0.0	12669.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	14118.0	0.0	14118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.8	1.0
10°-20°	427.1	3.0
20°-30°	671.8	4.8
30°-40°	963.3	6.8
40°-50°	1665.0	11.8
50°-60°	3289.3	23.3
60°-70°	4597.1	32.6
70°-80°	2220.9	15.7
80°-90°	142.7	1.0
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°	14118.0	100.0
0°-180°	14118.0	100.0

Coefficient of Utilization



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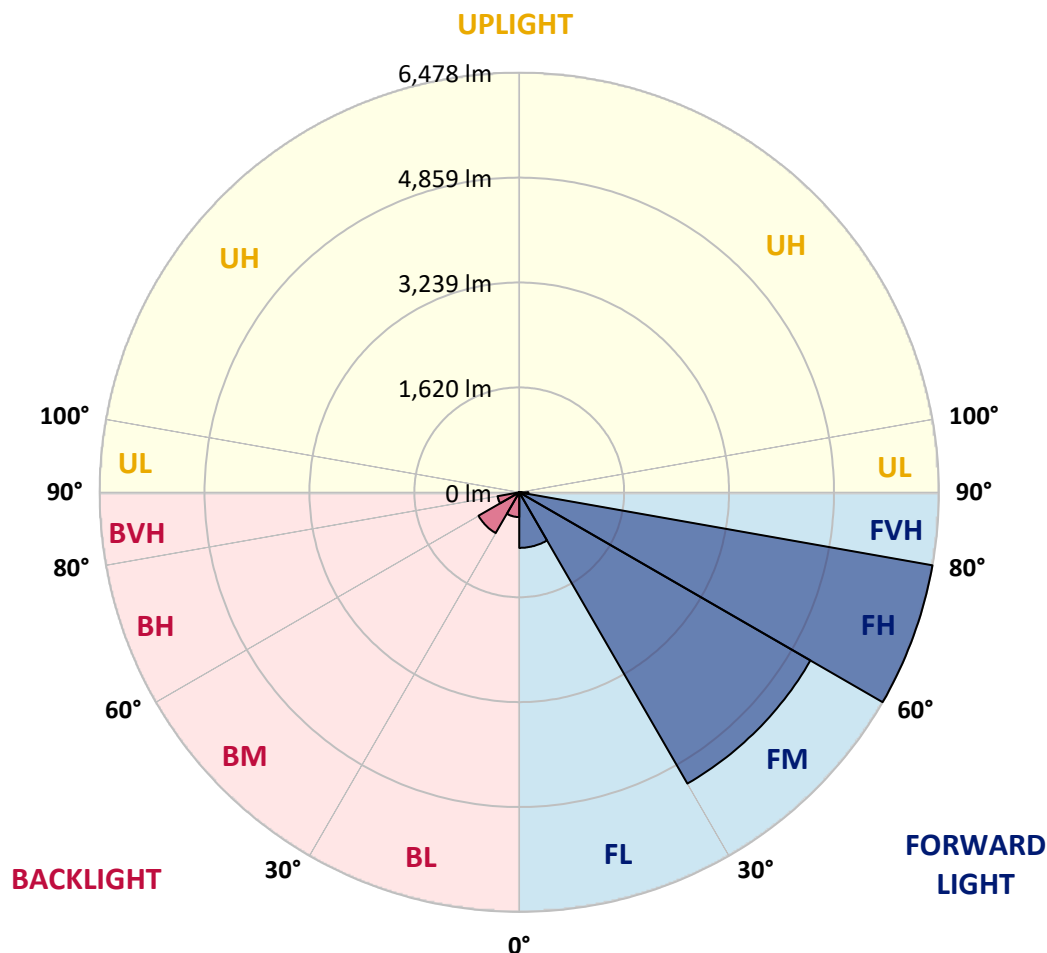
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	857.8	6.1			
FM	(30°-60°)	5191.5	36.8			
FH	(60°-80°)	6478.2	45.9			G3/7500
FVH	(80°-90°)	141.5	1.0			G2/225
BL	(0°-30°)	381.9	2.7	B1/500		
BM	(30°-60°)	726.1	5.1	B1/1000		
BH	(60°-80°)	339.7	2.4	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
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°	45°	46°	55°	65°	75°	85°
0°	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6
2.5°	1571.5	1569.5	1560.2	1556.2	1533.7	1520.5	1515.2	1498.6	1474.8	1451.0	1424.5
5°	1750.2	1749.5	1732.3	1715.8	1673.4	1633.7	1626.4	1588.0	1534.4	1484.1	1433.8
7.5°	1932.9	1924.3	1907.1	1875.3	1813.7	1750.2	1744.2	1689.9	1613.8	1541.0	1468.9
10°	2087.8	2082.5	2060.0	2011.6	1939.5	1867.3	1860.1	1793.2	1707.1	1617.8	1525.8
12.5°	2208.2	2204.3	2174.5	2114.2	2037.5	1962.7	1952.7	1893.2	1801.1	1701.2	1592.6
15°	2281.7	2279.7	2243.3	2179.1	2103.7	2038.8	2030.2	1977.9	1892.5	1787.9	1665.4
17.5°	2298.9	2299.6	2261.9	2197.0	2134.8	2088.4	2081.8	2042.1	1970.6	1866.7	1738.3
20°	2260.5	2268.5	2234.7	2178.5	2140.1	2115.6	2110.3	2086.4	2026.2	1928.2	1796.5
22.5°	2206.3	2210.2	2187.1	2149.3	2133.4	2138.1	2135.4	2122.2	2071.2	1981.2	1854.1
25°	2173.2	2173.2	2159.3	2127.5	2138.1	2166.5	2167.2	2164.6	2124.2	2046.1	1924.3
27.5°	2171.8	2167.9	2152.0	2128.1	2157.3	2201.0	2203.6	2221.5	2196.3	2124.8	2011.6
30°	2224.8	2220.2	2186.4	2155.3	2192.4	2239.4	2246.0	2285.0	2272.4	2210.2	2108.9
32.5°	2348.6	2332.0	2257.2	2206.3	2234.1	2290.3	2298.9	2361.1	2381.0	2315.5	2202.9
35°	2518.0	2465.7	2357.8	2302.9	2305.5	2364.5	2372.4	2463.7	2522.7	2412.1	2275.8
37.5°	2751.7	2725.9	2550.5	2403.5	2415.4	2504.8	2528.0	2627.2	2610.7	2465.1	2358.5
40°	3264.0	3223.7	3037.0	2685.5	2520.7	2618.6	2625.9	2678.9	2680.2	2584.9	2530.6
42.5°	3961.7	3945.2	3748.6	3197.2	2727.9	2694.8	2708.0	2797.4	2897.3	2837.7	2835.1
45°	4734.2	4725.6	4517.1	3876.3	3146.9	2944.3	2960.9	3080.7	3272.0	3285.2	3369.3
47.5°	5355.8	5351.8	5232.0	4634.3	3788.3	3367.3	3372.6	3499.7	3836.0	4002.1	4136.5
50°	5922.4	5941.6	5846.9	5454.4	4662.1	4029.9	4017.3	4102.1	4642.2	4914.3	5081.1
52.5°	6710.1	6737.2	6471.8	6219.6	5578.9	4852.0	4842.1	4930.8	5611.3	5815.2	5845.0
55°	7405.8	7359.5	7149.6	7076.8	6696.9	5867.5	5864.8	5942.9	6548.6	6635.3	6690.3
57.5°	7713.0	7695.1	7796.4	7963.2	7867.8	7067.6	7061.6	7002.0	7387.3	7396.5	7565.3
60°	7906.9	7928.7	8239.2	8753.5	8991.2	8359.0	8320.6	7957.2	8188.2	8167.7	8348.4
62.5°	7761.3	7804.3	8363.0	9220.2	9831.8	9486.3	9432.0	8832.3	8872.7	8801.8	8970.0
65°	6988.1	7055.0	7970.4	9132.2	10248.9	10367.3	10312.4	9604.8	9416.1	9299.6	9206.3
67.5°	5674.2	5713.9	6669.7	8366.3	10060.9	10892.9	10881.7	10282.0	9826.5	9215.6	8491.4
69°	4689.2	4728.3	5648.4	7560.0	9647.1	11005.5	11027.3	10499.1	9748.4	8704.5	7523.6
70°	3971.7	4013.4	4870.6	6869.0	9167.2	10953.2	10992.2	10478.5	9524.7	8112.8	6674.4
72.5°	2083.1	2118.9	2998.6	4732.2	7473.3	10057.6	10176.0	9592.9	8073.7	5891.9	3946.5
75°	654.7	675.2	1171.0	2473.7	5116.8	7820.2	7847.3	7525.0	5733.1	3240.9	1643.6
77.5°	249.6	243.6	389.9	911.5	2586.9	4924.2	5090.3	4702.4	3008.5	1145.8	379.3
80°	134.4	135.0	202.6	377.3	1106.8	2530.6	2670.9	2279.1	1069.0	357.4	87.4
82.5°	58.3	60.9	113.9	199.9	508.4	933.3	1003.5	835.4	408.4	240.3	32.4
85°	12.6	13.9	54.9	108.6	207.2	262.1	274.7	270.7	260.1	186.7	12.6
87.5°	0.0	0.0	24.5	39.1	52.3	59.6	52.3	68.2	143.6	125.8	6.6
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°	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6	1414.6
2.5°	1415.9	1404.0	1383.5	1361.0	1345.1	1328.5	1315.3	1309.3	1302.7	1298.1	1304.0
5°	1413.2	1390.1	1350.4	1312.0	1284.2	1261.7	1243.1	1235.8	1228.6	1223.3	1222.6
7.5°	1436.4	1404.0	1343.1	1286.8	1243.8	1213.3	1188.2	1177.6	1169.0	1165.0	1161.7
10°	1480.8	1439.1	1357.6	1284.2	1228.6	1176.9	1122.7	1081.0	1053.8	1041.2	1036.6
12.5°	1538.4	1486.1	1385.4	1298.1	1217.3	1118.0	1002.8	903.6	839.3	818.2	805.6
15°	1605.9	1541.0	1421.9	1315.9	1176.3	994.9	799.6	669.9	610.3	598.4	585.2
17.5°	1670.7	1599.3	1465.5	1319.3	1086.2	795.0	585.8	497.8	474.6	482.6	484.5
20°	1727.7	1656.8	1508.6	1290.1	922.7	596.4	453.4	431.6	440.2	455.4	458.1
22.5°	1785.3	1712.4	1548.3	1213.3	713.6	452.8	408.4	413.7	422.3	437.5	440.2
25°	1855.4	1780.0	1585.4	1072.3	535.5	385.3	387.9	395.8	404.4	418.3	419.7
27.5°	1936.2	1865.4	1609.8	889.0	397.2	354.1	362.7	374.7	383.3	396.5	399.2
30°	2043.4	1977.9	1617.8	699.0	333.0	326.3	330.3	344.9	357.4	369.4	371.3
32.5°	2144.0	2089.1	1591.3	527.6	308.5	300.5	300.5	309.1	323.7	334.9	337.6
35°	2236.7	2201.0	1506.6	385.9	289.9	276.7	270.1	270.1	279.3	288.6	291.3
37.5°	2359.2	2357.8	1369.6	307.8	272.1	256.8	242.9	232.3	229.0	231.0	232.3
40°	2569.0	2571.0	1190.8	276.0	256.8	236.3	215.1	195.9	178.1	172.1	171.4
42.5°	2896.7	2866.9	1003.5	260.8	243.6	215.1	183.4	157.5	129.7	121.1	120.5
45°	3416.9	3240.2	804.9	246.9	229.7	191.3	151.6	116.5	94.0	87.4	87.4
47.5°	4174.9	3730.7	623.5	231.7	211.2	164.2	114.5	84.1	68.8	65.5	66.2
50°	4958.6	4211.3	477.9	212.5	188.7	135.7	84.7	60.9	52.3	52.3	53.0
52.5°	5653.6	4563.4	372.7	192.0	160.9	106.6	64.2	47.7	43.7	43.0	43.7
55°	6304.3	4790.5	285.3	168.1	127.8	79.4	49.0	39.1	36.4	35.1	34.4
57.5°	6931.9	4903.0	213.8	135.7	92.7	57.6	39.1	33.1	30.4	28.5	27.8
60°	7349.5	4811.7	147.0	100.0	64.2	41.7	32.4	28.5	25.2	23.2	22.5
62.5°	7585.2	4562.1	94.7	72.2	45.7	31.1	25.8	23.8	19.2	17.2	17.2
65°	7489.9	4150.4	66.2	51.6	33.1	23.2	19.2	19.2	13.9	11.3	10.6
67.5°	6637.3	3506.3	50.3	38.4	23.8	17.2	14.6	16.5	8.6	5.3	5.3
69°	5710.6	2905.9	43.0	31.8	19.9	13.9	12.6	15.2	6.0	4.0	3.3
70°	4963.2	2506.8	39.1	27.8	16.5	11.9	11.3	14.6	6.0	3.3	2.6
72.5°	2969.5	1398.0	29.8	19.9	10.6	9.3	9.3	16.5	6.0	3.3	2.6
75°	1200.1	492.5	21.8	13.9	7.9	7.9	11.3	21.2	5.3	2.6	2.0
77.5°	272.1	107.9	12.6	8.6	5.3	7.9	13.2	16.5	3.3	1.3	0.0
80°	66.2	26.5	7.9	5.3	3.3	6.0	9.9	9.3	0.7	0.0	0.0
82.5°	21.8	9.3	3.3	2.6	0.7	2.0	4.6	2.6	0.0	0.0	0.0
85°	9.3	5.3	1.3	0.7	0.0	0.0	0.7	0.0	0.0	0.0	0.0
87.5°	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)