

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: P322788

Luminaire Tested: **GAN-SA4A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322788
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-SA4A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 11394 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

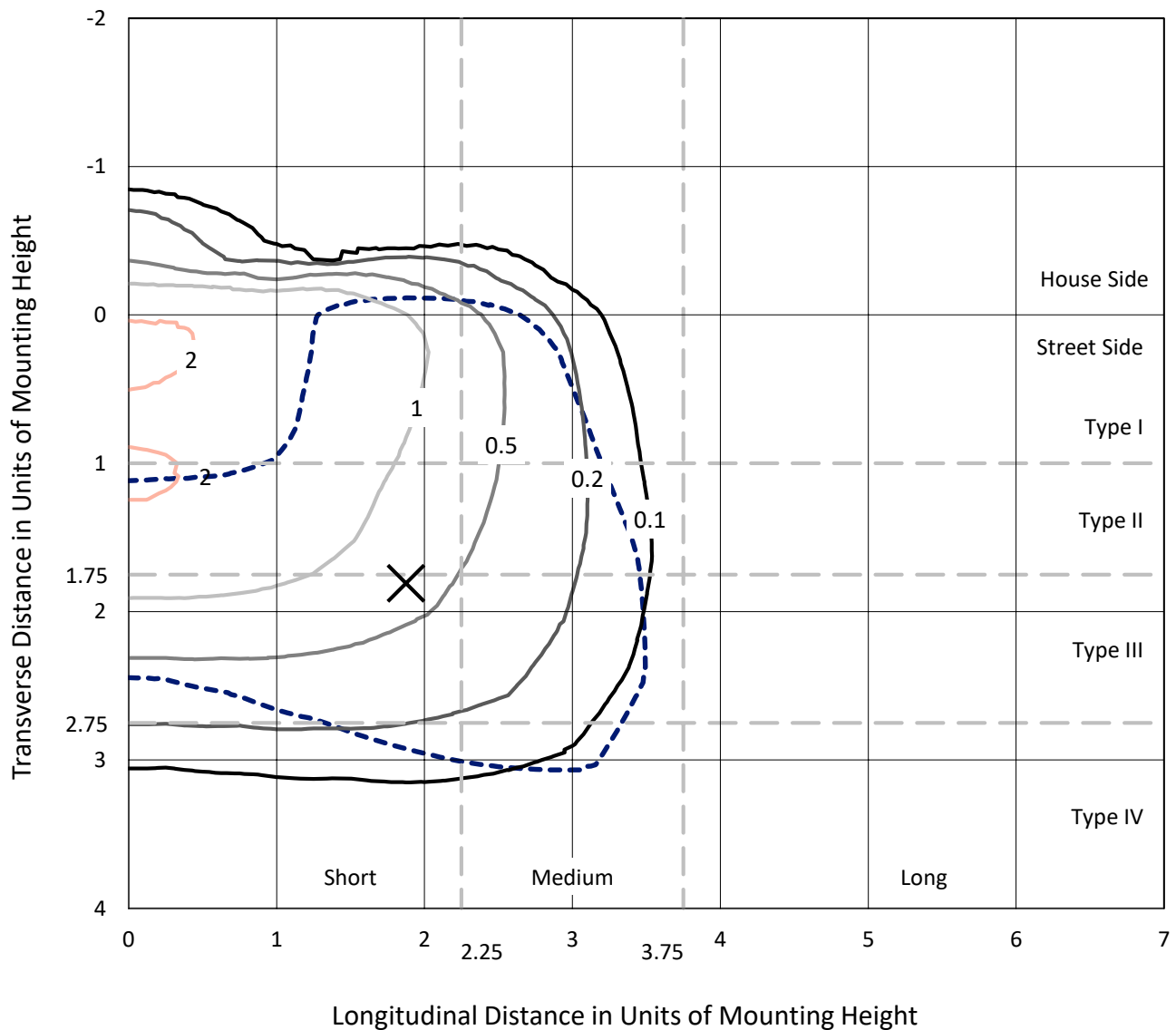
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

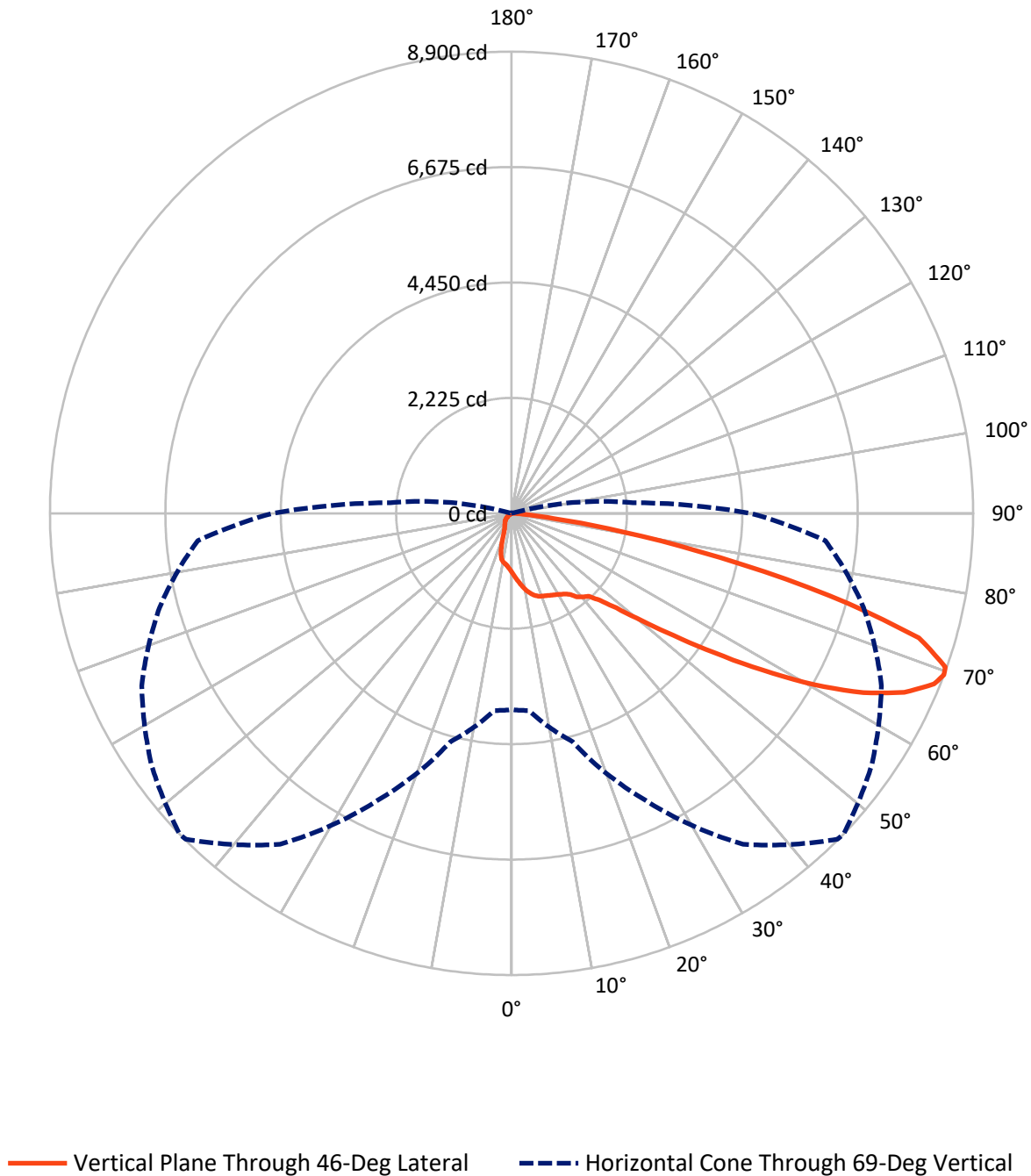
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1169.3	0.0	1169.3
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	10224.7	0.0	10224.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	11394.0	0.0	11394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	1.0
10°-20°	344.7	3.0
20°-30°	542.1	4.8
30°-40°	777.4	6.8
40°-50°	1343.7	11.8
50°-60°	2654.6	23.3
60°-70°	3710.1	32.6
70°-80°	1792.4	15.7
80°-90°	115.2	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°	11394.0	100.0
0°-180°	11394.0	100.0

Coefficient of Utilization



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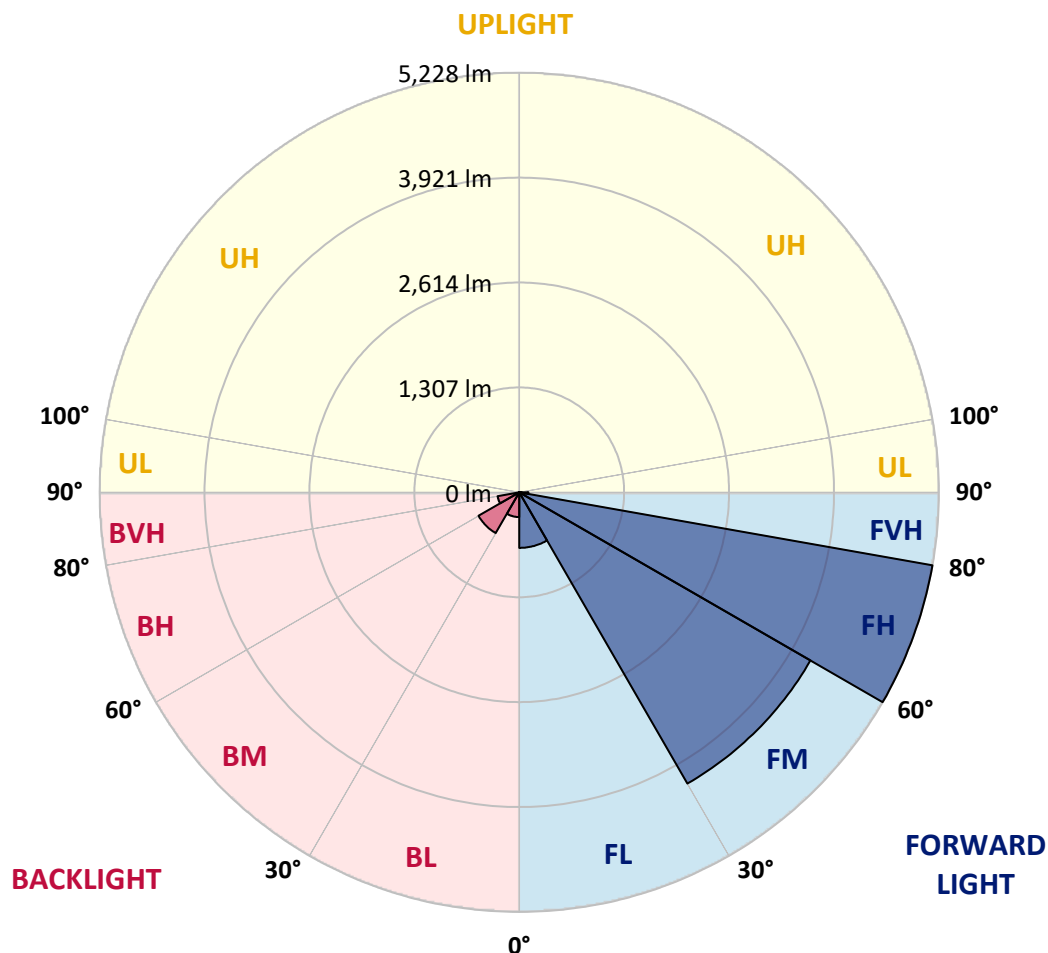
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	692.3	6.1			
FM	(30°-60°)	4189.8	36.8			
FH	(60°-80°)	5228.3	45.9			G3/7500
FVH	(80°-90°)	114.2	1.0			G2/225
BL	(0°-30°)	308.2	2.7	B1/500		
BM	(30°-60°)	586.0	5.1	B1/1000		
BH	(60°-80°)	274.2	2.4	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1268.2	1266.6	1259.2	1256.0	1237.8	1227.1	1222.8	1209.5	1190.3	1171.0	1149.6
5°	1412.5	1412.0	1398.1	1384.7	1350.5	1318.5	1312.6	1281.6	1238.3	1197.7	1157.1
7.5°	1559.9	1553.0	1539.1	1513.5	1463.8	1412.5	1407.7	1363.9	1302.4	1243.7	1185.4
10°	1684.9	1680.7	1662.5	1623.5	1565.3	1507.0	1501.2	1447.2	1377.8	1305.6	1231.4
12.5°	1782.2	1779.0	1754.9	1706.3	1644.3	1584.0	1576.0	1527.9	1453.6	1373.0	1285.3
15°	1841.5	1839.9	1810.5	1758.7	1697.8	1645.4	1638.5	1596.3	1527.3	1442.9	1344.1
17.5°	1855.4	1855.9	1825.4	1773.1	1722.9	1685.5	1680.1	1648.1	1590.4	1506.5	1402.9
20°	1824.4	1830.8	1803.5	1758.1	1727.1	1707.4	1703.1	1683.9	1635.3	1556.2	1449.9
22.5°	1780.6	1783.8	1765.1	1734.6	1721.8	1725.5	1723.4	1712.7	1671.6	1598.9	1496.4
25°	1753.9	1753.9	1742.6	1717.0	1725.5	1748.5	1749.0	1746.9	1714.3	1651.3	1553.0
27.5°	1752.8	1749.6	1736.8	1717.5	1741.0	1776.3	1778.4	1792.9	1772.6	1714.9	1623.5
30°	1795.5	1791.8	1764.5	1739.4	1769.3	1807.3	1812.6	1844.1	1834.0	1783.8	1702.0
32.5°	1895.4	1882.1	1821.7	1780.6	1803.0	1848.4	1855.4	1905.6	1921.6	1868.7	1777.9
35°	2032.2	1990.0	1902.9	1858.6	1860.7	1908.2	1914.7	1988.4	2035.9	1946.7	1836.7
37.5°	2220.8	2199.9	2058.4	1939.8	1949.4	2021.5	2040.2	2120.3	2107.0	1989.4	1903.4
40°	2634.3	2601.7	2451.0	2167.3	2034.3	2113.4	2119.3	2162.0	2163.1	2086.1	2042.3
42.5°	3197.3	3184.0	3025.3	2580.3	2201.5	2174.8	2185.5	2257.6	2338.3	2290.2	2288.1
45°	3820.8	3813.8	3645.5	3128.4	2539.7	2376.2	2389.6	2486.3	2640.7	2651.4	2719.2
47.5°	4322.4	4319.2	4222.5	3740.1	3057.4	2717.6	2721.9	2824.4	3095.8	3229.9	3338.4
50°	4779.7	4795.2	4718.8	4402.0	3762.5	3252.4	3242.2	3310.6	3746.5	3966.1	4100.7
52.5°	5415.4	5437.3	5223.1	5019.6	4502.4	3915.9	3907.8	3979.4	4528.6	4693.2	4717.2
55°	5976.9	5939.5	5770.2	5711.4	5404.7	4735.4	4733.2	4796.3	5285.1	5355.1	5399.4
57.5°	6224.8	6210.4	6292.1	6426.7	6349.8	5703.9	5699.1	5651.0	5961.9	5969.4	6105.6
60°	6381.3	6398.9	6649.5	7064.6	7256.4	6746.2	6715.2	6421.9	6608.3	6591.8	6737.6
62.5°	6263.8	6298.5	6749.4	7441.2	7934.8	7656.0	7612.2	7128.1	7160.7	7103.6	7239.3
65°	5639.8	5693.8	6432.6	7370.2	8271.4	8367.0	8322.7	7751.6	7599.3	7505.3	7430.0
67.5°	4579.4	4611.4	5382.8	6752.1	8119.7	8791.2	8782.1	8298.1	7930.6	7437.5	6853.0
69°	3784.4	3816.0	4558.5	6101.4	7785.8	8882.0	8899.6	8473.3	7867.5	7025.0	6072.0
70°	3205.3	3239.0	3930.8	5543.6	7398.5	8839.8	8871.3	8456.8	7686.9	6547.4	5386.6
72.5°	1681.2	1710.1	2420.0	3819.2	6031.4	8117.0	8212.6	7742.0	6515.9	4755.1	3185.0
75°	528.3	544.9	945.0	1996.4	4129.5	6311.3	6333.2	6073.1	4626.9	2615.6	1326.5
77.5°	201.4	196.6	314.7	735.6	2087.7	3974.1	4108.2	3795.1	2428.0	924.7	306.1
80°	108.4	109.0	163.5	304.5	893.2	2042.3	2155.6	1839.3	862.8	288.5	70.5
82.5°	47.0	49.1	91.9	161.3	410.3	753.3	809.9	674.2	329.6	193.9	26.2
85°	10.2	11.2	44.3	87.6	167.2	211.6	221.7	218.5	209.9	150.7	10.2
87.5°	0.0	0.0	19.8	31.5	42.2	48.1	42.2	55.0	115.9	101.5	5.3
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°	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1142.7	1133.1	1116.5	1098.4	1085.5	1072.2	1061.5	1056.7	1051.4	1047.6	1052.4
5°	1140.6	1121.9	1089.8	1058.8	1036.4	1018.2	1003.3	997.4	991.5	987.2	986.7
7.5°	1159.3	1133.1	1083.9	1038.5	1003.8	979.2	958.9	950.4	943.4	940.2	937.6
10°	1195.1	1161.4	1095.7	1036.4	991.5	949.8	906.0	872.4	850.5	840.3	836.6
12.5°	1241.5	1199.3	1118.1	1047.6	982.4	902.3	809.3	729.2	677.4	660.3	650.2
15°	1296.0	1243.7	1147.5	1062.0	949.3	802.9	645.3	540.6	492.6	482.9	472.3
17.5°	1348.4	1290.7	1182.8	1064.7	876.7	641.6	472.8	401.7	383.0	389.4	391.1
20°	1394.3	1337.2	1217.5	1041.2	744.7	481.3	365.9	348.3	355.3	367.5	369.7
22.5°	1440.8	1382.0	1249.5	979.2	575.9	365.4	329.6	333.9	340.8	353.1	355.3
25°	1497.4	1436.5	1279.5	865.4	432.2	310.9	313.1	319.5	326.4	337.6	338.7
27.5°	1562.6	1505.4	1299.2	717.5	320.5	285.8	292.8	302.4	309.3	320.0	322.1
30°	1649.1	1596.3	1305.6	564.1	268.7	263.4	266.6	278.3	288.5	298.1	299.7
32.5°	1730.4	1686.0	1284.3	425.8	248.9	242.5	242.5	249.5	261.2	270.3	272.5
35°	1805.1	1776.3	1215.9	311.5	234.0	223.3	218.0	218.0	225.4	232.9	235.1
37.5°	1904.0	1902.9	1105.3	248.4	219.6	207.3	196.1	187.5	184.8	186.4	187.5
40°	2073.3	2074.9	961.1	222.8	207.3	190.7	173.6	158.1	143.7	138.9	138.4
42.5°	2337.8	2313.7	809.9	210.5	196.6	173.6	148.0	127.1	104.7	97.8	97.2
45°	2757.7	2615.0	649.6	199.3	185.4	154.4	122.3	94.0	75.9	70.5	70.5
47.5°	3369.3	3010.9	503.2	187.0	170.4	132.5	92.4	67.8	55.6	52.9	53.4
50°	4001.9	3398.7	385.7	171.5	152.3	109.5	68.4	49.1	42.2	42.2	42.7
52.5°	4562.8	3682.9	300.8	154.9	129.8	86.0	51.8	38.5	35.3	34.7	35.3
55°	5087.9	3866.2	230.3	135.7	103.1	64.1	39.5	31.5	29.4	28.3	27.8
57.5°	5594.4	3957.0	172.6	109.5	74.8	46.5	31.5	26.7	24.6	23.0	22.4
60°	5931.5	3883.3	118.6	80.7	51.8	33.7	26.2	23.0	20.3	18.7	18.2
62.5°	6121.7	3681.9	76.4	58.2	36.9	25.1	20.8	19.2	15.5	13.9	13.9
65°	6044.7	3349.6	53.4	41.7	26.7	18.7	15.5	15.5	11.2	9.1	8.5
67.5°	5356.7	2829.8	40.6	31.0	19.2	13.9	11.8	13.4	6.9	4.3	4.3
69°	4608.7	2345.2	34.7	25.6	16.0	11.2	10.2	12.3	4.8	3.2	2.7
70°	4005.6	2023.1	31.5	22.4	13.4	9.6	9.1	11.8	4.8	2.7	2.1
72.5°	2396.5	1128.3	24.0	16.0	8.5	7.5	7.5	13.4	4.8	2.7	2.1
75°	968.5	397.5	17.6	11.2	6.4	6.4	9.1	17.1	4.3	2.1	1.6
77.5°	219.6	87.1	10.2	6.9	4.3	6.4	10.7	13.4	2.7	1.1	0.0
80°	53.4	21.4	6.4	4.3	2.7	4.8	8.0	7.5	0.5	0.0	0.0
82.5°	17.6	7.5	2.7	2.1	0.5	1.6	3.7	2.1	0.0	0.0	0.0
85°	7.5	4.3	1.1	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.8	1.6	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)