

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: P324016

Luminaire Tested: **GAN-SA2D-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10239 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

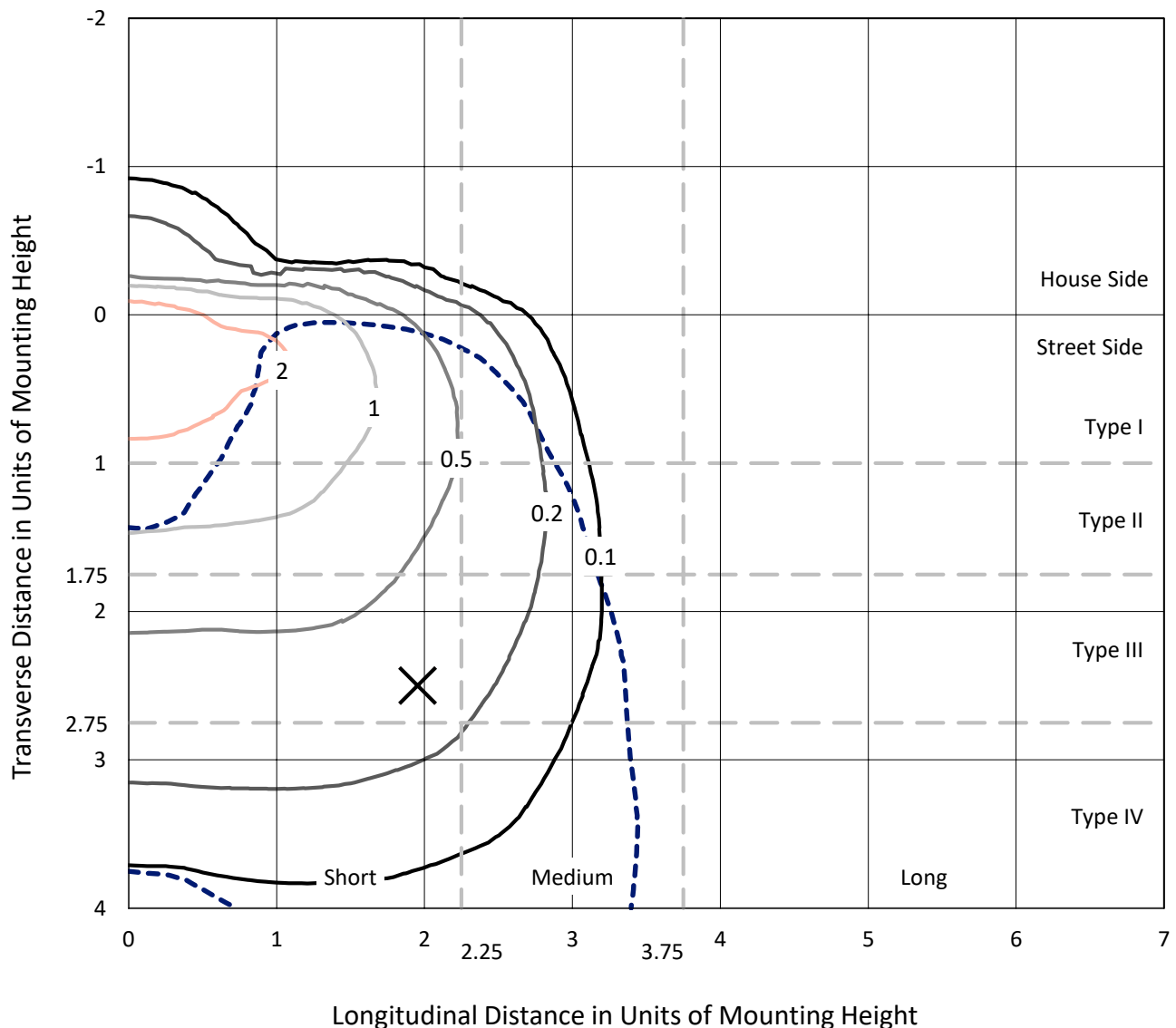
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

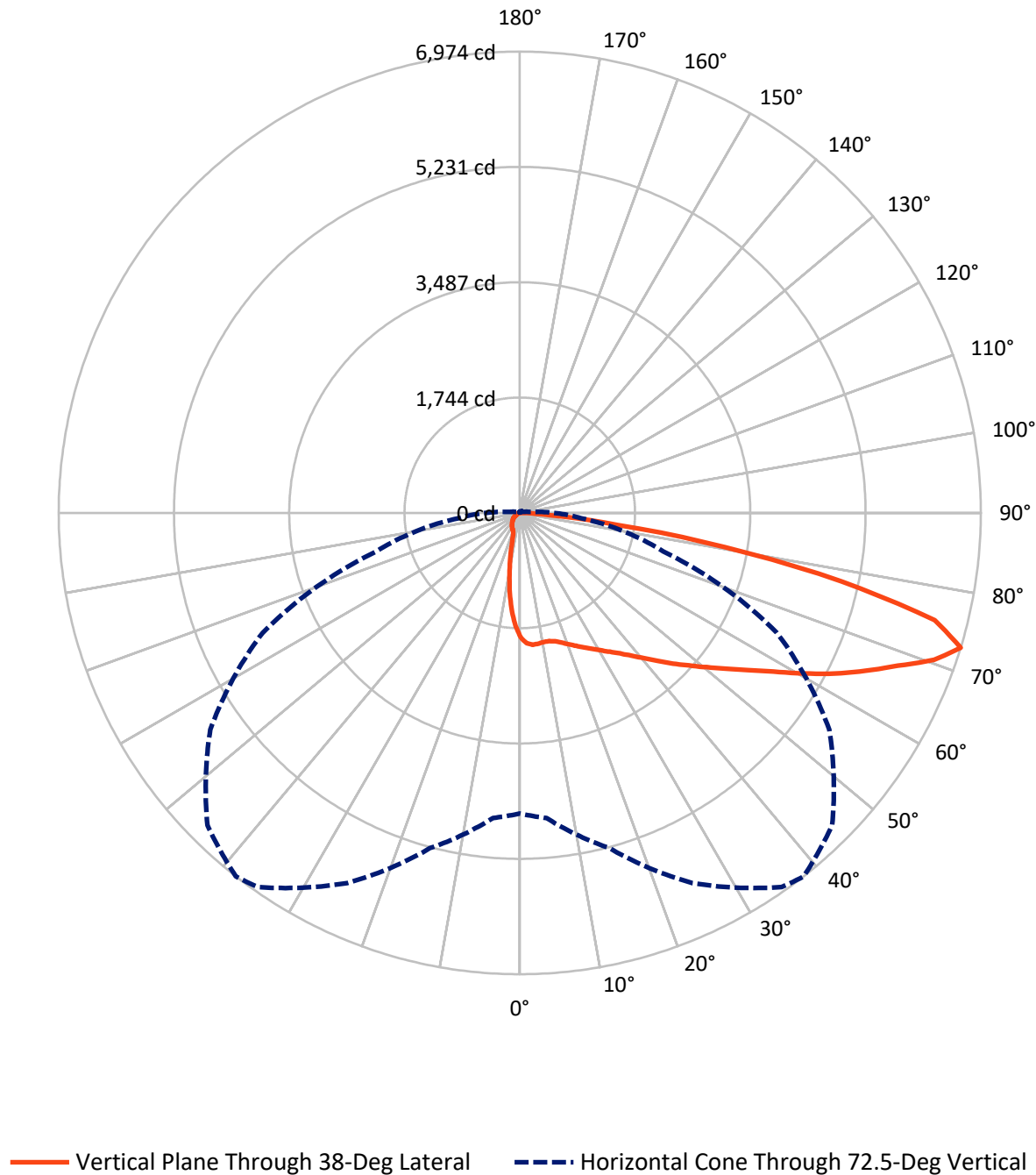
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 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	861.7	0.0	861.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	9377.4	0.0	9377.4
	% Fixture	91.6	0.0	91.6
Total	Lumens	10239.0	0.0	10239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.6
10°-20°	392.4	3.8
20°-30°	624.0	6.1
30°-40°	938.2	9.2
40°-50°	1431.3	14.0
50°-60°	2022.9	19.8
60°-70°	2537.3	24.8
70°-80°	1897.2	18.5
80°-90°	235.3	2.3
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°	10239.0	100.0
0°-180°	10239.0	100.0

Coefficient of Utilization



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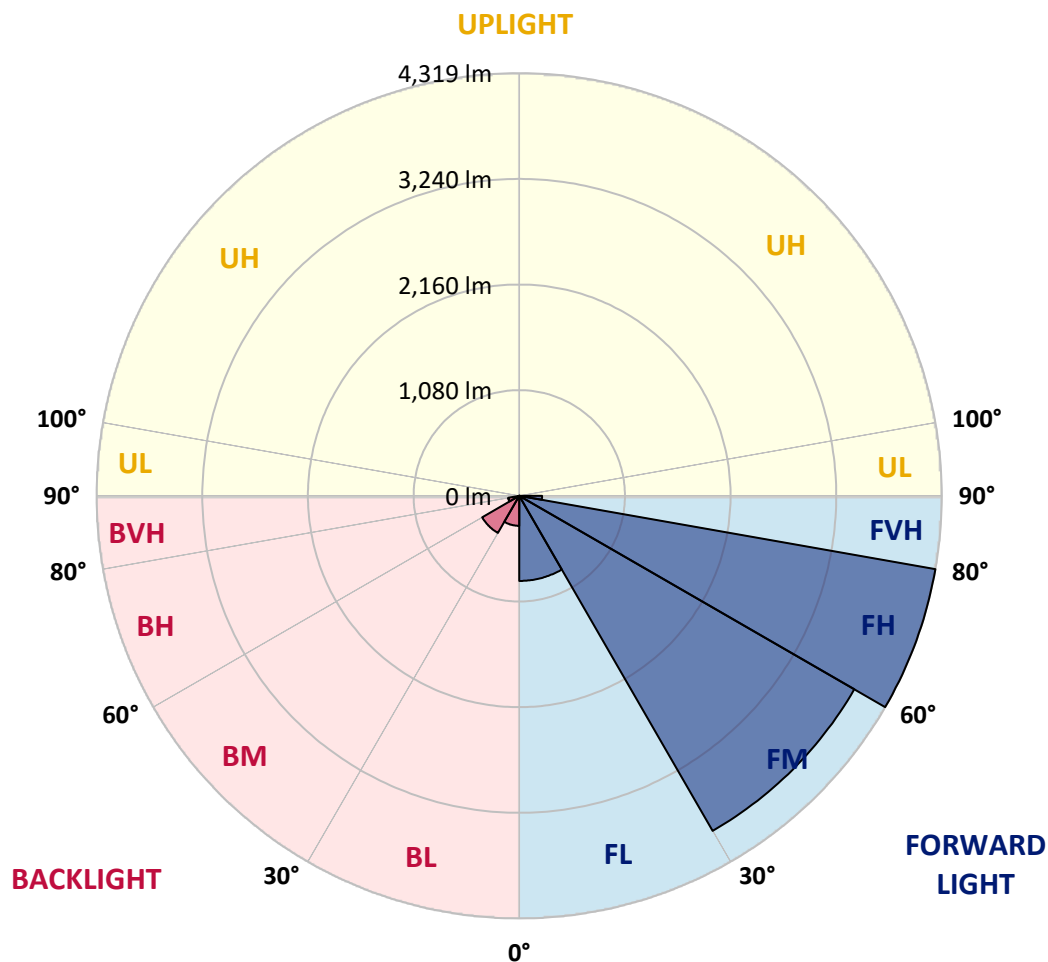
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	870.1	8.5			
FM	(30°-60°)	3954.8	38.6			
FH	(60°-80°)	4319.5	42.2			G2/5000
FVH	(80°-90°)	233.1	2.3			G3/500
BL	(0°-30°)	306.8	3.0	B1/500		
BM	(30°-60°)	437.6	4.3	B1/1000		
BH	(60°-80°)	115.1	1.1	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	38°	45°	55°	65°	75°	85°
0°	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9
2.5°	1998.6	1999.0	1994.3	1986.7	1976.9	1971.8	1963.3	1949.7	1935.2	1909.3	1881.2
5°	2039.4	2039.4	2033.4	2023.2	2007.5	2002.8	1986.7	1965.0	1935.2	1893.1	1845.9
7.5°	2035.2	2036.0	2027.9	2017.3	2001.6	1997.3	1977.7	1953.5	1916.5	1865.5	1805.1
10°	2013.0	2015.2	2008.8	2003.7	1989.2	1984.5	1966.3	1942.0	1905.0	1850.6	1781.3
12.5°	1990.5	1992.6	1994.8	1999.4	1990.5	1988.8	1974.3	1953.9	1918.6	1862.1	1783.8
15°	1976.0	1980.3	1995.6	2013.9	2016.0	2014.3	2005.0	1985.8	1950.1	1891.4	1802.1
17.5°	1976.0	1982.8	2014.7	2049.6	2061.9	2063.2	2055.1	2028.3	1985.8	1922.9	1819.1
20°	1992.6	2002.0	2051.7	2101.1	2121.5	2121.5	2105.7	2068.3	2018.6	1951.4	1830.6
22.5°	2035.2	2047.5	2110.0	2167.0	2188.7	2184.0	2162.7	2108.3	2052.6	1983.7	1845.1
25°	2118.9	2128.3	2193.3	2250.7	2263.9	2253.3	2226.5	2156.8	2096.0	2027.5	1871.4
27.5°	2226.9	2228.2	2295.4	2343.9	2335.8	2328.6	2295.0	2217.6	2158.5	2090.0	1916.9
30°	2345.6	2345.6	2404.7	2441.7	2417.0	2411.1	2377.5	2291.1	2238.4	2175.1	1981.6
32.5°	2460.4	2465.5	2513.5	2536.9	2509.3	2503.3	2470.6	2384.3	2344.7	2304.7	2082.4
35°	2571.4	2575.2	2620.7	2633.4	2607.1	2608.8	2585.4	2512.3	2497.4	2492.3	2234.2
37.5°	2678.9	2679.8	2726.1	2734.2	2721.0	2735.5	2737.6	2673.0	2700.6	2741.9	2448.0
40°	2777.2	2778.0	2824.0	2844.8	2867.3	2886.0	2902.6	2868.2	2959.6	3055.3	2702.8
42.5°	2855.8	2864.8	2923.0	2962.6	3022.1	3057.8	3102.9	3101.2	3267.9	3411.6	3010.6
45°	2925.2	2940.5	3021.7	3091.0	3193.1	3250.0	3320.6	3375.9	3614.9	3808.4	3322.3
47.5°	3016.6	3031.0	3123.7	3237.3	3373.3	3448.2	3565.1	3684.6	3996.3	4197.9	3626.8
50°	3145.4	3139.0	3230.5	3393.3	3568.1	3666.3	3833.0	4012.0	4374.8	4537.2	3805.8
52.5°	3282.8	3280.2	3347.8	3563.0	3797.7	3912.5	4132.8	4350.5	4736.6	4771.1	3887.9
55°	3452.9	3434.6	3491.6	3756.5	4070.3	4193.6	4453.0	4685.6	5024.9	4902.9	3929.1
57.5°	3631.0	3600.8	3655.3	3972.1	4377.7	4523.6	4807.7	5012.2	5216.7	4993.1	3928.7
60°	3815.2	3779.4	3844.1	4241.7	4759.6	4928.4	5192.1	5232.9	5395.7	5038.6	3899.8
62.5°	3969.1	3947.8	4043.9	4530.0	5186.1	5351.9	5482.5	5433.6	5546.7	5073.8	3832.2
65°	4132.0	4133.2	4288.4	4866.3	5639.4	5751.2	5762.3	5693.8	5673.0	5066.6	3603.4
67.5°	4352.2	4372.6	4631.6	5323.0	6080.4	6166.7	6165.8	5975.8	5765.3	4779.2	3096.1
70°	4585.3	4633.3	5027.1	5845.6	6561.7	6649.3	6604.2	6155.2	5428.5	3864.5	2191.2
72.5°	4546.1	4629.5	5246.9	6175.2	6907.4	6974.2	6681.2	5714.2	4290.6	2246.1	933.0
75°	3507.3	3603.8	4811.1	5848.6	6544.7	6484.8	5740.6	4446.6	2344.7	626.8	210.1
77.5°	1852.7	1904.2	3178.2	4455.6	5103.2	4977.7	4043.9	2466.8	714.8	155.2	94.4
80°	970.4	982.3	1385.0	2528.0	3149.7	3150.5	2396.6	1083.5	294.7	79.5	63.4
82.5°	519.6	529.8	731.8	1168.1	1650.3	1496.0	917.6	596.2	171.4	45.1	60.8
85°	125.0	127.1	415.0	533.7	648.9	463.5	272.6	500.5	46.4	26.4	49.3
87.5°	48.1	48.9	153.9	230.9	165.4	107.2	127.6	186.7	6.0	10.2	7.7
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°	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9	1882.9
2.5°	1864.2	1853.2	1825.9	1791.5	1760.9	1738.8	1705.6	1683.9	1669.5	1669.0	1663.5
5°	1817.0	1794.5	1735.8	1666.1	1602.7	1545.7	1478.5	1425.4	1385.8	1379.4	1365.8
7.5°	1766.4	1729.4	1639.3	1530.4	1424.1	1316.1	1190.6	1112.8	1046.1	1014.2	1010.8
10°	1735.4	1683.5	1555.5	1398.2	1231.5	1055.8	891.7	778.2	696.1	672.7	655.3
12.5°	1729.0	1660.5	1490.9	1274.0	1035.9	803.7	622.1	501.3	435.9	415.0	409.5
15°	1735.4	1649.9	1436.4	1151.1	837.7	570.2	417.6	347.4	322.7	316.8	316.4
17.5°	1739.2	1637.1	1374.8	1014.6	645.5	407.4	319.8	299.4	295.5	295.1	296.0
20°	1738.8	1617.6	1301.2	862.4	480.1	320.2	289.2	284.9	284.1	284.5	284.1
22.5°	1735.8	1594.6	1220.4	705.5	362.7	286.2	276.0	273.4	273.0	273.0	273.0
25°	1741.3	1576.3	1131.5	555.4	298.9	270.4	264.1	261.9	261.5	261.5	260.7
27.5°	1761.3	1566.1	1034.2	427.4	270.0	256.4	251.3	250.9	249.6	249.2	250.0
30°	1793.6	1566.1	927.4	332.5	252.6	242.0	238.1	237.3	236.9	236.4	236.9
32.5°	1850.6	1578.0	810.9	276.4	236.0	225.8	223.2	224.5	223.2	223.2	223.2
35°	1953.5	1613.7	688.9	241.1	218.6	210.1	207.5	209.2	208.4	208.4	207.9
37.5°	2103.6	1680.1	566.0	219.8	203.3	194.3	190.9	193.5	192.6	192.6	192.2
40°	2286.5	1776.6	449.0	203.7	188.4	179.0	176.0	177.3	175.2	175.2	176.0
42.5°	2512.3	1899.1	347.0	188.0	173.5	164.6	162.9	161.6	157.8	155.6	156.1
45°	2763.1	2026.6	270.4	172.6	159.5	152.2	149.7	146.3	139.9	135.6	136.1
47.5°	2987.2	2124.9	219.8	157.8	146.7	141.2	137.3	131.0	121.6	116.5	116.9
50°	3105.0	2139.8	187.1	142.9	134.8	129.3	123.7	114.0	102.9	97.4	97.0
52.5°	3135.2	2070.0	162.9	129.3	122.9	116.5	109.3	96.1	83.8	77.8	77.0
55°	3146.3	1963.7	141.2	116.5	110.1	102.9	93.6	78.7	67.2	61.2	60.8
57.5°	3109.7	1805.1	124.2	105.0	97.4	88.4	77.0	62.9	51.9	47.2	47.2
60°	3028.5	1590.4	111.0	92.7	84.2	74.0	62.1	48.9	38.7	34.9	34.9
62.5°	2866.5	1312.3	98.7	79.9	71.9	61.2	50.2	37.0	27.2	25.1	25.5
65°	2560.7	995.5	86.3	68.5	61.2	50.6	39.1	26.4	18.3	18.3	19.1
67.5°	2088.3	691.4	73.6	58.3	52.7	41.2	29.8	18.3	12.8	14.5	16.2
70°	1382.4	387.8	62.9	48.1	45.1	32.7	22.1	12.3	10.2	13.6	16.6
72.5°	521.8	151.0	52.7	38.7	39.1	25.1	15.7	9.4	9.4	14.9	19.6
75°	145.4	74.0	37.8	28.5	30.6	18.3	11.5	8.1	8.9	17.0	23.0
77.5°	85.5	54.4	24.7	16.6	20.8	12.8	7.7	6.4	7.7	14.5	22.1
80°	68.9	28.9	14.5	8.5	11.5	7.2	5.1	3.8	2.1	5.5	11.5
82.5°	68.9	17.4	6.8	6.0	6.0	3.8	2.6	1.7	0.4	0.0	3.0
85°	46.4	7.2	4.3	3.8	3.0	1.3	0.9	0.4	0.0	0.0	0.0
87.5°	7.7	3.0	1.7	0.9	0.4	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)