

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: P321606

Luminaire Tested: **GAN-SA2C-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11131 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

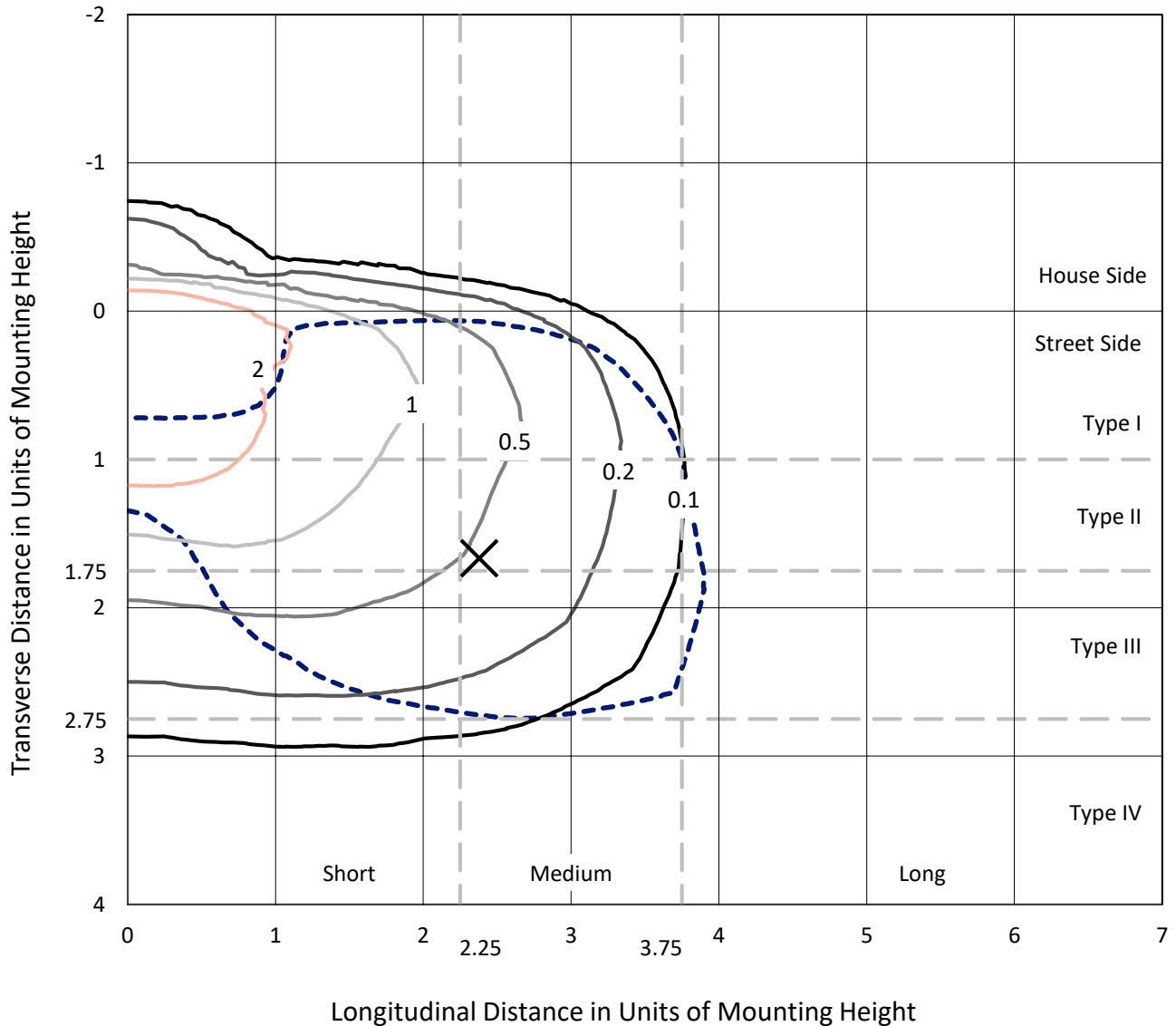
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

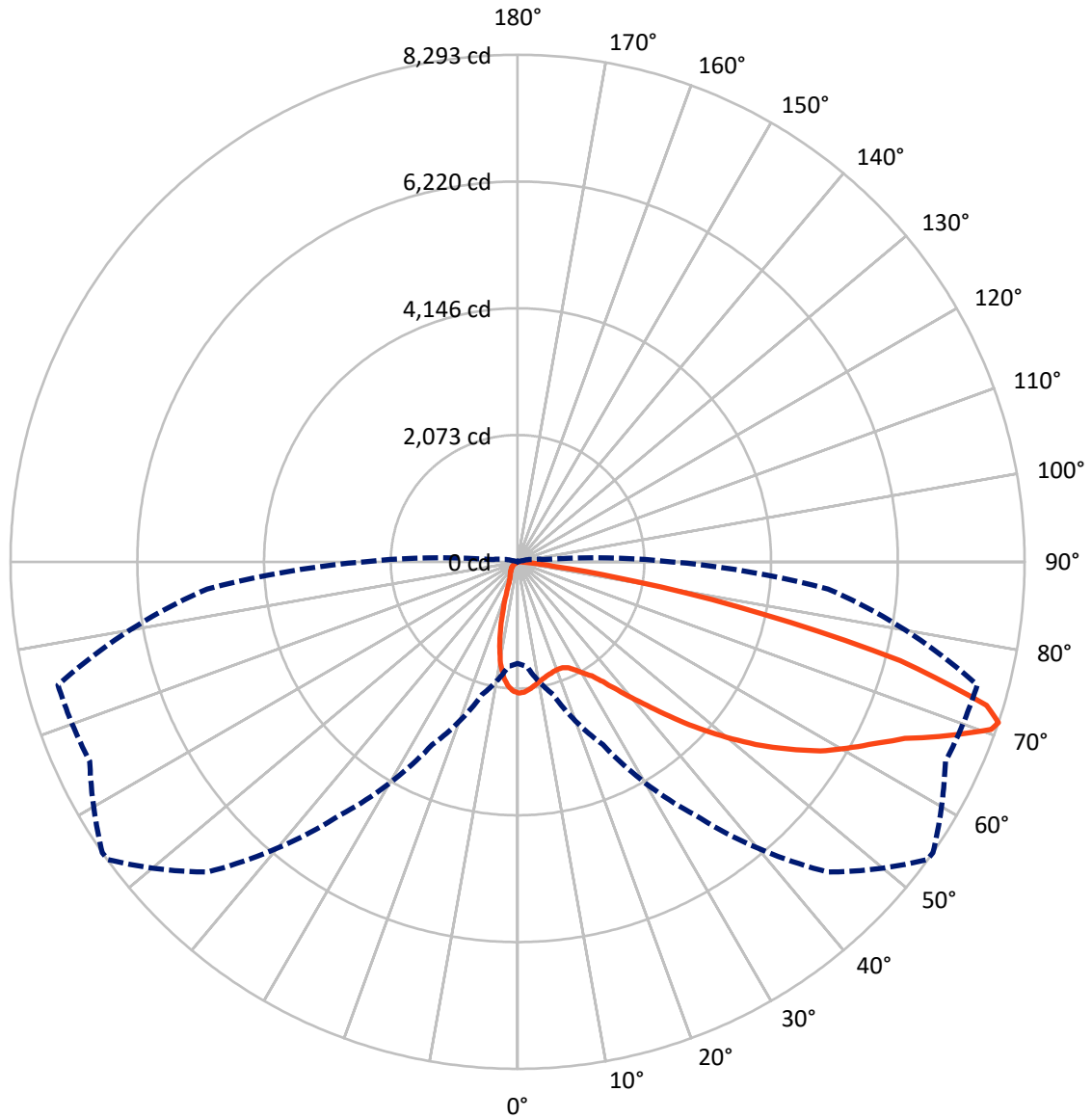
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	881.3	0.0	881.3
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	10249.7	0.0	10249.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	11131.0	0.0	11131.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.0	1.6
10°-20°	413.2	3.7
20°-30°	664.0	6.0
30°-40°	1128.2	10.1
40°-50°	1751.2	15.7
50°-60°	2354.4	21.2
60°-70°	2880.2	25.9
70°-80°	1684.0	15.1
80°-90°	72.8	0.7
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°	11131.0	100.0
0°-180°	11131.0	100.0



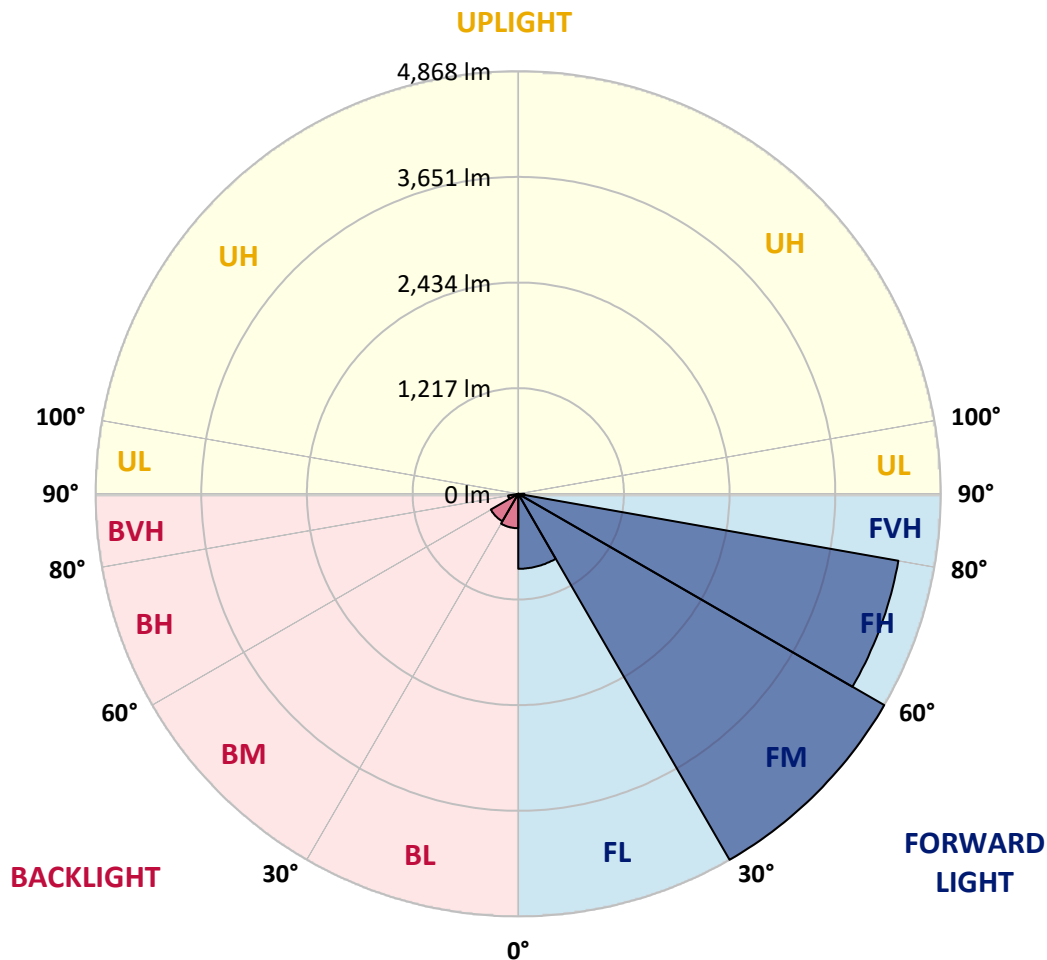
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	863.6	7.8			
FM (30°-60°)	4868.4	43.7			
FH (60°-80°)	4446.1	39.9			G2/5000
FVH (80°-90°)	71.6	0.6			G1/100
BL (0°-30°)	396.7	3.6	B1/500		
BM (30°-60°)	365.4	3.3	B1/1000		
BH (60°-80°)	118.1	1.1	B1/500		G1/500
BVH (80°-90°)	1.1	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-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7
2.5°	2083.7	2086.2	2095.2	2099.2	2108.7	2124.7	2132.7	2133.2	2146.2	2151.2	2155.1
5°	1936.2	1951.2	1966.2	1982.2	2011.2	2049.7	2087.7	2091.2	2133.2	2164.1	2180.6
7.5°	1809.3	1822.8	1840.8	1866.3	1907.2	1967.7	2031.2	2038.7	2118.2	2188.6	2225.6
10°	1678.8	1689.8	1715.8	1753.3	1809.8	1890.8	1976.2	1988.7	2104.7	2221.6	2286.6
12.5°	1539.4	1545.9	1577.4	1631.4	1714.3	1817.3	1929.7	1946.2	2096.2	2259.6	2358.6
15°	1433.4	1436.4	1466.4	1522.4	1617.4	1751.3	1893.8	1913.7	2098.2	2305.1	2437.0
17.5°	1406.4	1407.9	1423.9	1462.4	1546.4	1692.3	1865.3	1889.8	2104.2	2349.6	2516.0
20°	1515.9	1505.4	1488.9	1482.9	1518.9	1656.8	1848.3	1875.8	2112.2	2389.1	2587.0
22.5°	1816.3	1785.3	1716.8	1625.4	1569.9	1659.3	1852.8	1880.3	2137.7	2437.5	2668.9
25°	2262.1	2219.1	2102.7	1922.7	1749.8	1731.3	1890.3	1918.2	2187.1	2495.5	2747.4
27.5°	2769.4	2726.9	2584.5	2327.6	2032.7	1873.8	1976.2	2002.2	2260.6	2547.0	2807.4
30°	3255.2	3243.2	3075.3	2783.4	2388.6	2104.7	2087.2	2109.2	2315.1	2578.0	2854.9
32.5°	3667.1	3648.1	3513.1	3229.2	2795.9	2382.1	2217.6	2224.1	2356.1	2618.0	2916.8
35°	4048.9	4025.4	3907.0	3638.6	3213.7	2720.9	2418.5	2409.0	2445.5	2698.4	3006.8
37.5°	4382.3	4403.8	4272.3	4016.9	3588.6	3073.3	2689.4	2661.0	2585.5	2829.4	3137.3
40°	4661.2	4661.2	4592.7	4379.8	3993.4	3437.6	2995.8	2958.3	2795.9	3031.3	3302.7
42.5°	4761.6	4783.1	4808.6	4688.2	4355.8	3816.5	3337.2	3298.2	3092.3	3317.7	3511.6
45°	4767.6	4801.6	4932.1	4931.6	4683.2	4192.8	3722.0	3703.5	3472.1	3685.5	3770.5
47.5°	4683.2	4725.6	4940.6	5062.5	4942.6	4543.2	4142.9	4119.9	3918.5	4136.4	4041.4
50°	4552.7	4599.7	4849.6	5114.0	5119.0	4848.1	4586.2	4551.7	4409.8	4651.7	4321.3
52.5°	4319.3	4410.3	4768.1	5126.0	5234.9	5111.5	5008.0	4993.0	4959.5	5148.0	4544.2
55°	3820.0	3921.0	4563.7	5130.0	5342.4	5344.9	5403.4	5407.4	5474.8	5611.8	4710.1
57.5°	3584.1	3641.1	4206.8	5149.0	5501.8	5609.8	5806.2	5837.2	5941.7	6052.1	4899.6
60°	3435.6	3503.1	4030.9	5123.0	5752.2	5957.2	6179.6	6190.1	6302.0	6506.4	5156.0
62.5°	3317.2	3383.7	3920.0	5023.0	6033.6	6375.0	6544.4	6545.4	6629.4	7047.7	5447.4
65°	3024.8	3080.8	3695.5	4910.6	6219.5	6788.3	6968.3	6961.8	7030.2	7618.5	5785.7
67.5°	2602.0	2645.0	3237.2	4484.2	6149.6	7164.2	7608.0	7586.5	7503.5	8111.8	5918.7
70°	2011.7	2027.2	2551.5	3737.0	5493.8	7308.6	8226.3	8215.3	7793.9	8023.3	5431.4
71°	1662.8	1713.8	2248.6	3298.2	5054.5	7175.2	8286.2	8292.7	7721.0	7782.4	5096.0
72.5°	965.6	1009.1	1629.9	2533.0	4291.3	6618.4	7975.4	8022.3	7380.1	7078.7	4352.8
75°	206.9	221.4	604.3	1226.0	2360.6	4638.7	6295.0	6462.5	6015.1	4815.6	2623.5
77.5°	143.9	155.4	258.9	556.3	780.2	2292.1	3910.5	4099.4	3593.6	1809.8	839.7
80°	114.0	126.9	201.9	274.9	210.9	739.2	1831.8	1947.2	1198.5	403.8	141.4
82.5°	63.5	75.5	157.4	148.4	81.0	140.4	512.8	579.8	239.9	81.5	33.5
85°	18.5	22.5	101.5	108.0	34.5	27.0	87.5	108.5	45.5	21.5	15.0
87.5°	0.0	0.0	49.0	41.5	10.0	4.0	8.0	9.0	9.0	9.0	10.0
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°	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7	2146.7
2.5°	2155.1	2158.6	2146.2	2129.7	2112.2	2090.7	2068.2	2050.7	2050.2	2041.7	2033.2
5°	2181.6	2179.6	2145.2	2092.7	2030.7	1966.2	1904.7	1835.3	1812.3	1783.8	1774.3
7.5°	2230.6	2216.6	2143.7	2028.7	1892.8	1757.8	1618.4	1477.9	1417.9	1364.0	1354.5
10°	2292.1	2265.6	2134.2	1932.7	1683.3	1434.4	1224.0	1033.1	949.1	884.7	881.7
12.5°	2356.1	2315.6	2107.7	1787.8	1408.9	1059.1	816.7	628.8	558.8	513.8	517.8
15°	2423.0	2362.6	2050.7	1592.4	1096.6	718.7	501.8	391.3	363.4	351.9	354.9
17.5°	2491.5	2395.1	1971.2	1357.0	788.2	463.8	347.4	316.4	316.4	318.9	319.9
20°	2551.0	2412.5	1854.3	1093.1	534.3	337.9	303.9	299.4	301.9	305.9	306.4
22.5°	2610.0	2413.5	1701.8	825.7	373.9	295.9	289.4	287.4	288.9	293.4	293.9
25°	2658.0	2401.6	1510.9	587.3	298.4	278.9	275.9	274.9	275.9	281.4	281.4
27.5°	2677.4	2358.1	1278.0	412.8	267.4	259.9	258.9	259.9	261.4	265.4	265.9
30°	2679.4	2282.1	1024.1	298.9	242.4	234.4	236.4	239.9	238.4	237.4	238.4
32.5°	2684.4	2194.1	776.7	245.9	221.4	208.9	206.4	206.4	200.4	196.9	194.9
35°	2700.9	2090.7	563.3	220.9	199.9	185.4	175.9	164.9	153.4	147.4	145.9
37.5°	2726.9	1982.2	403.3	204.4	180.9	164.4	146.4	126.9	110.5	106.0	106.0
40°	2774.4	1870.3	298.4	191.4	165.9	145.4	118.5	93.0	78.0	75.5	75.5
42.5°	2849.4	1752.3	237.9	179.9	152.9	126.0	90.5	67.5	56.5	55.0	54.5
45°	2927.3	1622.4	207.9	168.9	138.9	103.5	67.0	50.0	43.5	42.0	42.0
47.5°	3005.3	1483.9	193.4	158.4	125.5	80.5	50.0	39.5	36.5	36.5	37.0
50°	3071.3	1339.5	182.9	146.9	108.0	61.0	39.5	33.5	32.5	34.5	35.0
52.5°	3087.8	1197.5	169.9	132.4	86.5	46.5	32.5	29.5	29.5	29.5	29.5
55°	3077.8	1087.6	152.9	114.5	64.0	37.0	28.0	26.0	25.5	25.5	25.5
57.5°	3111.8	1022.6	122.5	89.0	46.0	30.0	24.5	23.0	22.0	21.5	21.5
60°	3180.2	980.1	87.5	64.0	34.5	25.0	21.0	19.5	18.0	17.0	17.0
62.5°	3271.2	943.1	65.0	47.5	26.5	20.0	17.5	16.0	14.0	13.0	13.0
65°	3341.2	877.2	49.5	35.5	20.0	16.0	13.5	13.0	10.0	9.0	8.5
67.5°	3234.2	732.2	40.0	26.0	15.0	12.5	10.5	10.0	6.0	5.0	5.0
70°	2773.9	509.8	32.0	19.0	11.0	10.0	8.5	6.5	4.5	4.0	4.0
71°	2515.5	425.8	29.0	16.0	9.5	9.5	8.0	5.5	4.0	3.5	3.5
72.5°	2089.7	302.4	24.5	12.5	8.5	10.0	8.5	5.0	4.0	3.5	3.0
75°	1213.0	126.5	17.0	8.5	6.5	12.0	11.0	4.5	3.0	2.5	2.5
77.5°	364.9	46.5	9.5	5.5	5.0	10.5	12.5	4.0	1.5	0.5	0.5
80°	66.5	20.0	6.0	3.5	3.5	6.5	9.5	2.0	0.0	0.0	0.0
82.5°	23.5	10.0	3.5	2.0	1.5	3.0	4.5	0.0	0.0	0.0	0.0
85°	13.5	7.0	2.0	1.0	0.0	0.5	1.0	0.0	0.0	0.0	0.0
87.5°	9.0	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)