

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: P321195

Luminaire Tested: **GAN-SA1B-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4039 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

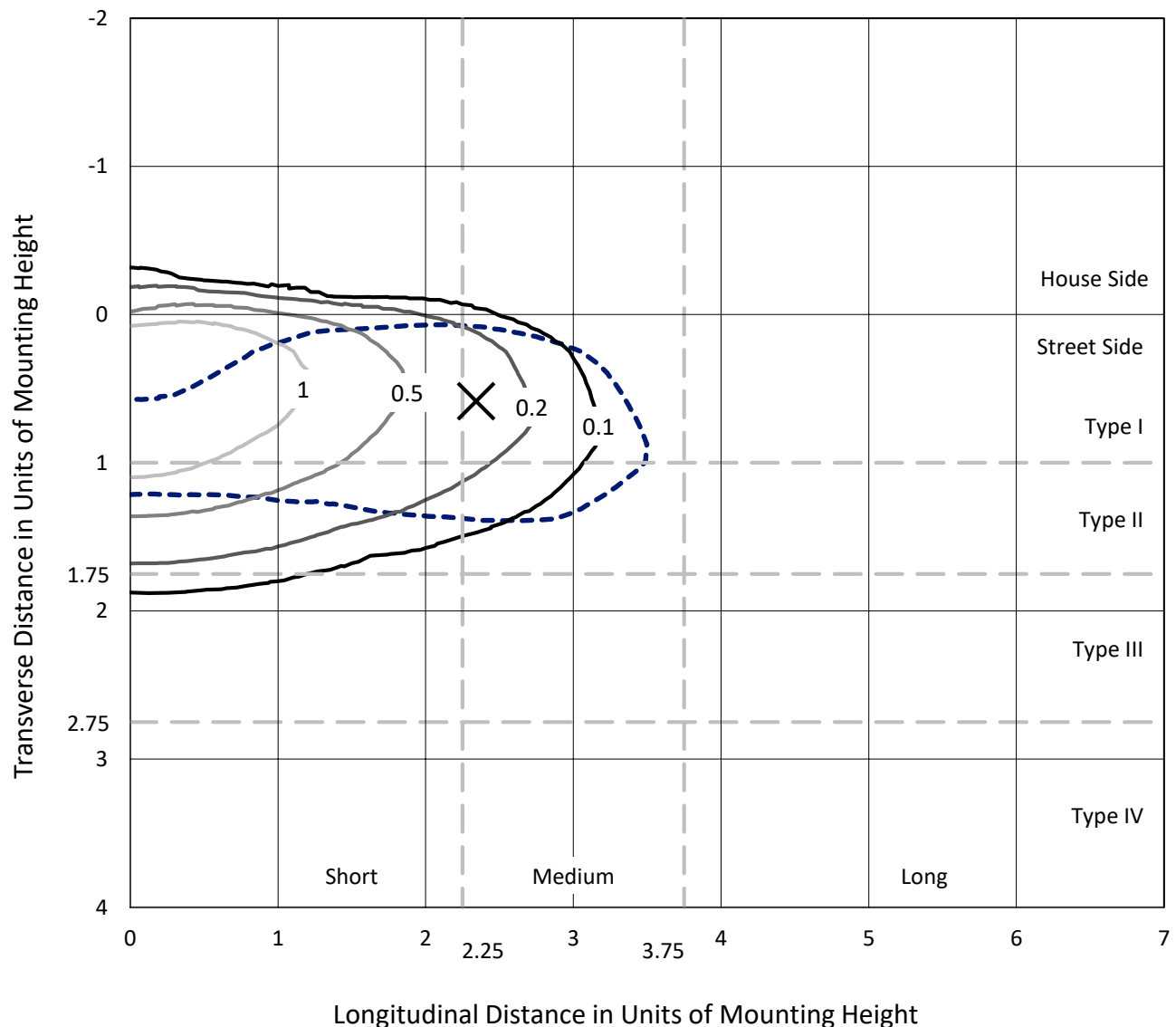
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

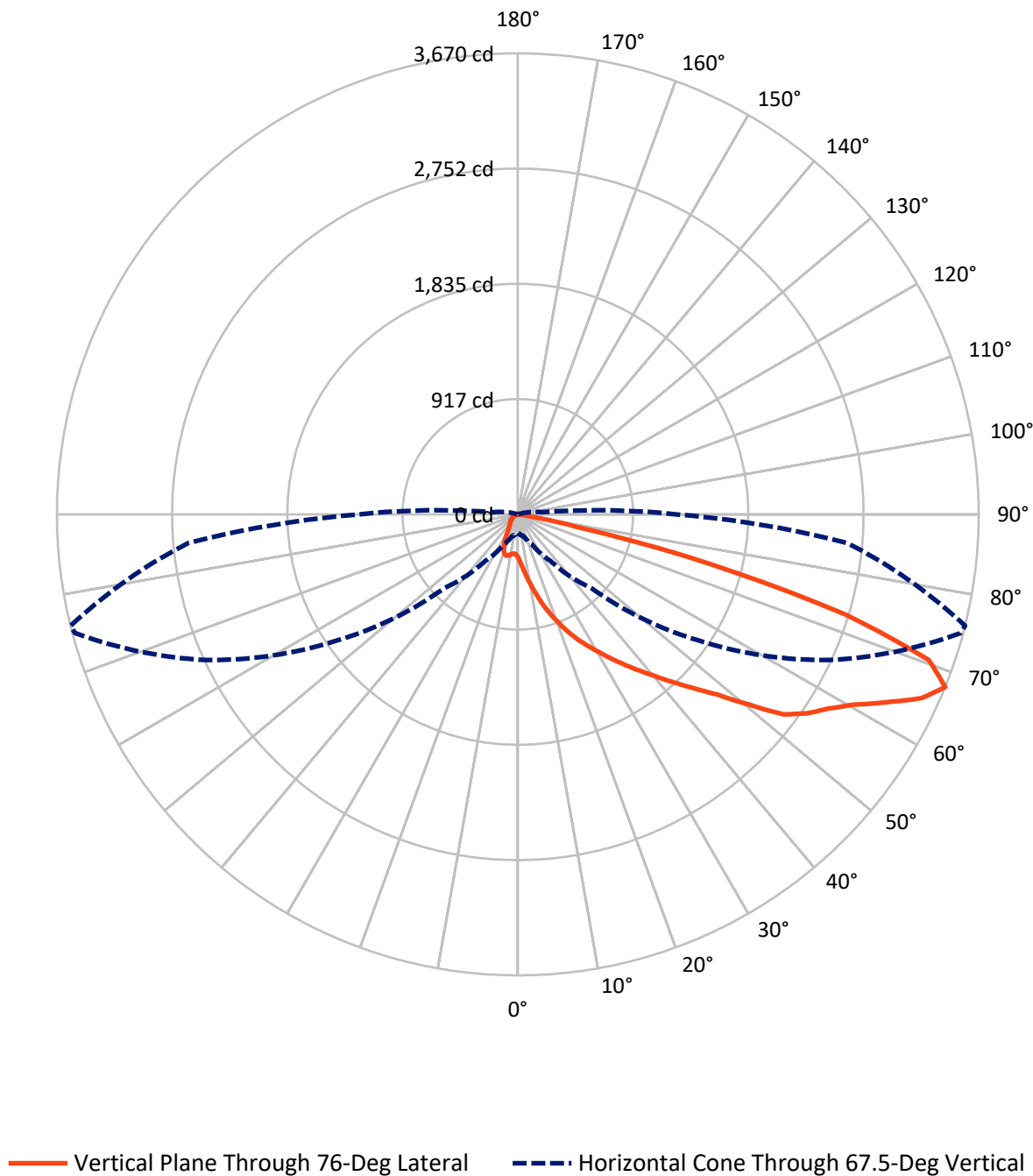
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	200.6	0.0	200.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3838.4	0.0	3838.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	4039.0	0.0	4039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.1
10°-20°	168.9	4.2
20°-30°	343.6	8.5
30°-40°	596.4	14.8
40°-50°	842.7	20.9
50°-60°	955.7	23.7
60°-70°	792.6	19.6
70°-80°	287.1	7.1
80°-90°	9.3	0.2
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°	4039.0	100.0
0°-180°	4039.0	100.0

Coefficient of Utilization



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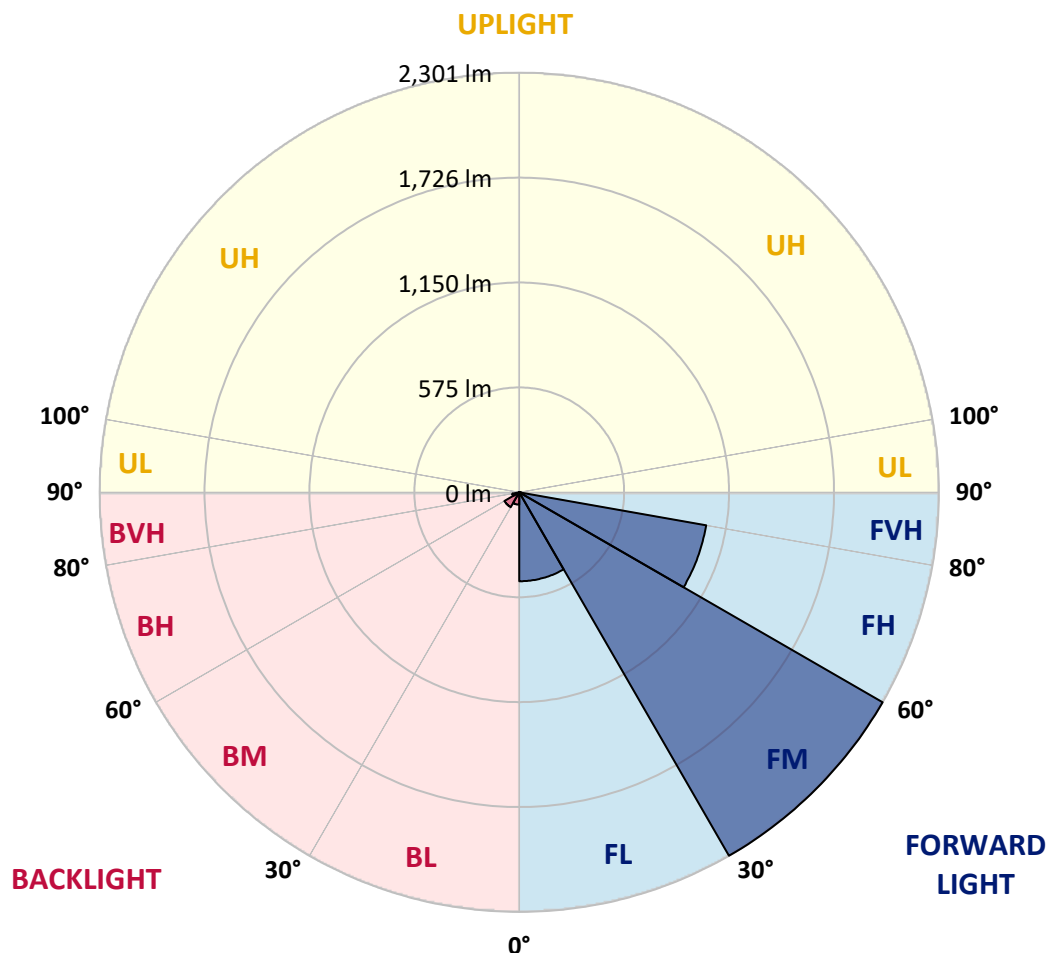
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	487.5	12.1			
FM	(30°-60°)	2300.9	57.0			
FH	(60°-80°)	1041.0	25.8			G1/1800
FVH	(80°-90°)	9.0	0.2			G0/10
BL	(0°-30°)	67.6	1.7	B0/110		
BM	(30°-60°)	93.9	2.3	B0/220		
BH	(60°-80°)	38.8	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6
2.5°	511.5	500.0	502.6	495.2	481.7	454.1	430.6	408.3	382.3	381.4	360.0
5°	689.7	679.9	678.7	663.7	639.2	592.3	546.7	494.6	436.6	432.4	386.9
7.5°	851.4	843.6	840.8	822.9	777.5	731.8	672.3	595.9	505.1	497.3	423.1
10°	975.7	971.9	972.7	959.9	921.0	878.5	800.5	702.9	582.8	570.7	466.7
12.5°	1069.8	1070.7	1077.1	1069.3	1047.5	1016.0	932.7	817.1	668.8	652.3	516.4
15°	1139.0	1143.4	1155.1	1164.9	1163.3	1136.0	1059.6	933.0	760.1	741.9	571.8
17.5°	1183.8	1188.7	1205.7	1227.3	1247.1	1240.8	1182.0	1044.9	852.5	831.4	631.1
20°	1223.1	1228.9	1247.1	1275.6	1312.6	1320.6	1282.0	1153.3	944.7	919.0	692.3
22.5°	1308.2	1308.0	1319.2	1335.8	1371.0	1391.6	1367.1	1254.0	1035.8	1009.1	754.8
25°	1462.2	1456.3	1452.4	1439.3	1447.1	1459.9	1446.2	1348.2	1127.5	1100.4	818.2
27.5°	1645.2	1648.7	1617.2	1582.0	1554.7	1541.6	1519.3	1435.4	1215.6	1185.9	880.1
30°	1838.2	1839.3	1802.1	1757.2	1697.2	1647.5	1608.9	1518.8	1306.3	1273.9	940.3
32.5°	2012.4	2005.5	1968.7	1907.4	1831.7	1775.8	1695.6	1611.9	1402.2	1370.9	1007.2
35°	2150.4	2142.3	2097.5	2041.8	1963.2	1906.9	1810.5	1704.8	1503.1	1472.4	1074.2
37.5°	2251.3	2241.7	2195.7	2138.4	2070.6	2037.9	1943.7	1805.9	1613.1	1580.2	1144.9
40°	2286.3	2278.0	2249.2	2207.2	2152.7	2145.3	2085.1	1922.1	1732.9	1697.9	1224.8
42.5°	2265.5	2257.3	2247.1	2232.9	2210.2	2217.3	2218.6	2054.7	1866.0	1831.5	1313.2
45°	2182.6	2175.4	2186.0	2206.7	2234.8	2269.9	2340.3	2197.1	2014.7	1977.9	1415.3
47.5°	2060.7	2055.4	2084.8	2136.4	2218.7	2315.4	2451.6	2346.9	2181.6	2147.4	1542.7
50°	1887.3	1886.4	1945.1	2039.5	2166.0	2337.3	2566.7	2517.1	2413.4	2377.5	1719.8
52.5°	1617.2	1619.0	1734.5	1885.5	2073.4	2322.4	2640.6	2735.9	2683.1	2645.8	1873.3
55°	1360.1	1370.7	1452.6	1670.3	1931.5	2267.2	2666.1	2838.0	2832.0	2796.6	1958.6
57.5°	1108.2	1127.5	1206.4	1409.8	1724.3	2140.0	2652.2	2882.2	2942.7	2915.7	2071.1
60°	835.3	844.2	935.1	1125.2	1458.3	1907.8	2550.7	2906.3	3094.2	3075.5	2234.5
62.5°	531.5	553.6	634.3	817.6	1135.5	1585.3	2379.8	2905.9	3283.8	3294.0	2445.3
65°	280.0	305.8	348.6	506.7	780.3	1225.2	2122.6	2878.7	3516.3	3530.7	2610.0
67.5°	151.0	158.4	181.0	263.0	452.5	830.0	1744.8	2744.2	3651.0	3669.9	2633.0
70°	110.4	114.5	123.0	145.5	227.8	482.1	1273.2	2439.3	3477.4	3470.3	2339.4
72.5°	84.8	91.1	97.5	106.5	131.0	257.3	792.7	1910.1	2774.6	2727.9	1748.7
75°	66.9	68.0	77.0	85.1	98.2	146.5	352.0	1112.5	1693.5	1582.9	906.8
77.5°	53.4	54.2	59.5	66.5	78.9	96.3	109.0	437.7	540.7	482.4	196.8
80°	31.7	33.4	44.2	51.3	65.5	60.7	39.8	95.0	84.4	76.5	33.1
82.5°	17.7	19.1	25.0	40.5	45.7	29.0	19.8	25.7	19.8	19.3	9.4
85°	0.0	0.9	16.1	25.1	18.6	6.4	8.3	8.5	5.8	5.5	3.7
87.5°	0.0	0.0	5.0	4.8	0.7	1.1	1.9	2.8	2.3	2.3	1.9
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°	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6	342.6
2.5°	349.3	339.8	321.7	304.0	289.2	277.0	266.0	261.6	258.0	257.5	254.7
5°	364.9	345.6	311.1	282.8	263.9	250.4	238.9	231.8	226.4	224.2	222.3
7.5°	388.5	359.3	309.7	277.1	254.5	231.8	210.6	187.6	173.3	167.8	164.6
10°	417.1	377.3	315.0	275.6	235.9	188.1	152.9	123.7	111.8	108.0	106.9
12.5°	450.6	399.8	324.2	265.6	196.3	133.6	105.5	95.6	92.9	91.7	91.7
15°	489.0	424.4	330.8	237.0	145.1	101.1	91.3	86.7	83.9	82.3	82.5
17.5°	528.3	448.5	327.6	195.4	107.1	89.9	82.6	77.7	73.8	72.2	71.9
20°	567.9	470.8	309.9	145.5	90.6	81.6	73.4	68.0	64.1	62.5	62.1
22.5°	609.0	489.7	278.7	106.7	81.4	72.4	64.4	58.9	55.2	53.8	53.1
25°	649.0	505.1	235.2	86.4	72.7	63.7	56.1	51.0	47.6	46.2	46.0
27.5°	686.3	514.8	184.8	76.3	65.1	55.9	49.0	44.4	41.6	40.5	40.4
30°	719.9	515.7	136.6	68.8	58.4	49.2	42.8	38.8	36.3	35.2	34.9
32.5°	753.9	508.3	99.5	62.1	52.2	43.4	37.2	34.0	32.2	31.3	31.3
35°	785.9	491.1	77.5	56.3	46.2	37.7	32.7	30.4	29.4	28.5	28.5
37.5°	817.3	466.5	65.8	51.1	40.5	32.9	28.8	27.4	26.5	25.7	25.7
40°	849.1	435.5	59.8	46.4	35.9	29.2	25.7	24.4	23.5	22.8	22.7
42.5°	888.2	399.8	55.9	41.9	31.9	25.8	22.7	21.2	20.5	19.8	19.5
45°	933.5	369.0	52.7	37.5	28.5	23.0	19.6	18.2	17.2	16.3	16.1
47.5°	998.8	346.7	48.5	32.7	25.3	20.0	17.0	15.4	13.8	12.9	12.7
50°	1082.2	328.3	43.0	28.5	22.1	17.0	14.2	12.2	10.8	9.9	9.9
52.5°	1123.6	304.2	38.0	24.8	18.6	14.3	11.5	9.2	8.5	7.6	7.6
55°	1140.3	285.8	33.1	21.1	15.4	11.9	9.0	7.1	6.5	6.0	5.8
57.5°	1187.0	280.5	28.8	17.9	12.7	9.4	6.9	5.3	5.0	4.2	4.2
60°	1262.2	283.2	25.0	15.2	10.3	7.3	5.1	4.1	3.7	3.0	3.0
62.5°	1343.4	279.8	21.1	13.1	8.0	5.3	3.5	3.0	3.0	1.8	1.6
65°	1359.0	249.2	18.1	10.8	6.2	3.9	2.3	1.9	2.7	0.4	0.0
67.5°	1261.3	193.3	15.6	8.3	4.6	3.0	1.8	0.9	2.3	0.0	0.0
70°	1008.6	122.8	12.6	6.0	3.5	2.5	1.4	0.4	1.8	0.0	0.0
72.5°	713.2	71.3	9.9	4.2	3.0	1.9	1.1	0.0	1.1	0.0	0.0
75°	360.7	38.0	6.2	3.2	2.3	1.4	0.7	0.0	0.2	0.0	0.0
77.5°	78.0	17.7	3.9	2.3	1.6	0.9	0.4	0.0	0.0	0.0	0.0
80°	17.0	7.8	2.5	1.4	0.9	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	6.2	4.1	1.2	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.4	2.1	0.7	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.7	0.2	0.2	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)