

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: P323826

Luminaire Tested: **GAN-SA2A-740-U-SL4-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323826  
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-SA2A-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 615mA 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: 7738 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

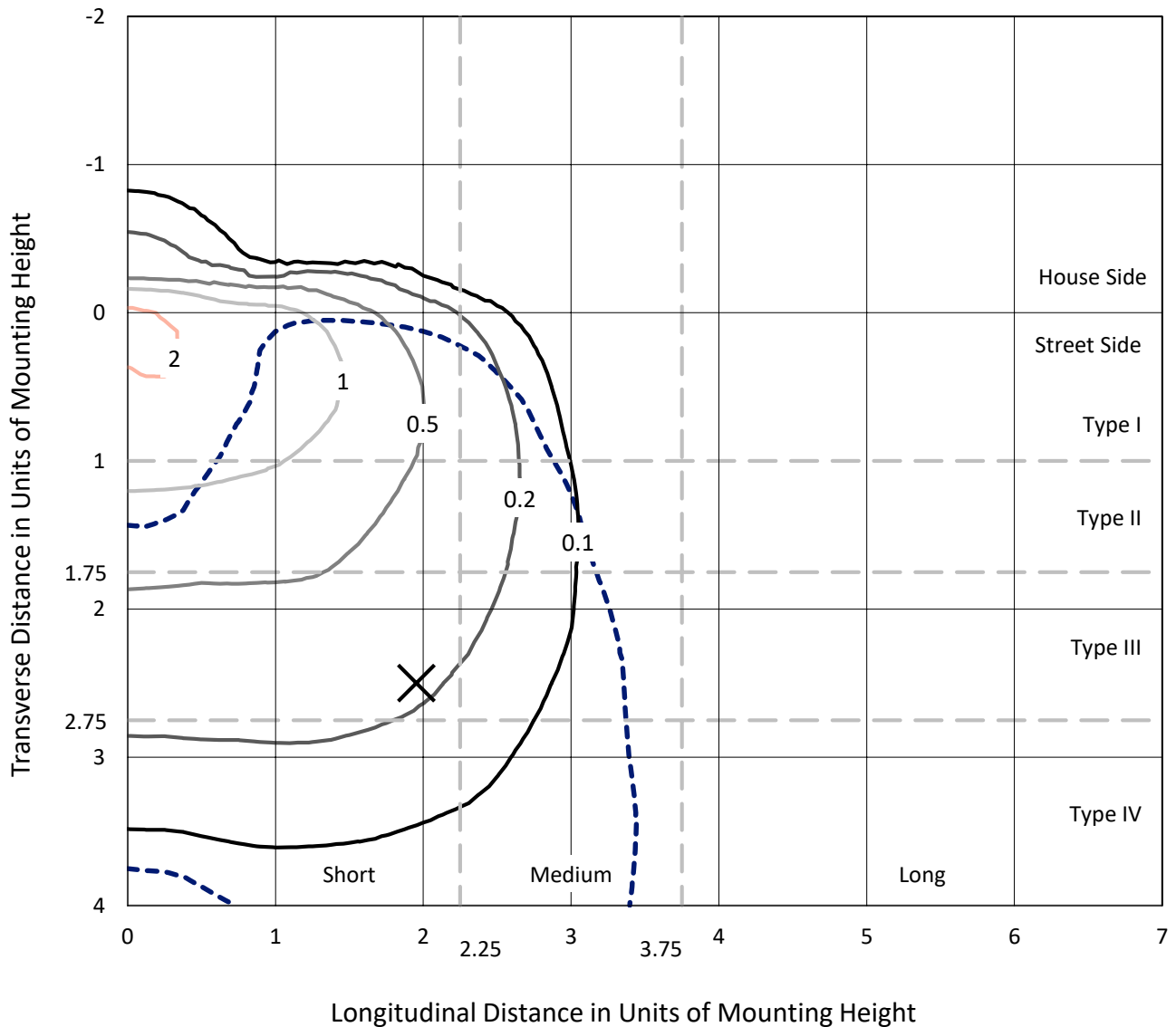
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

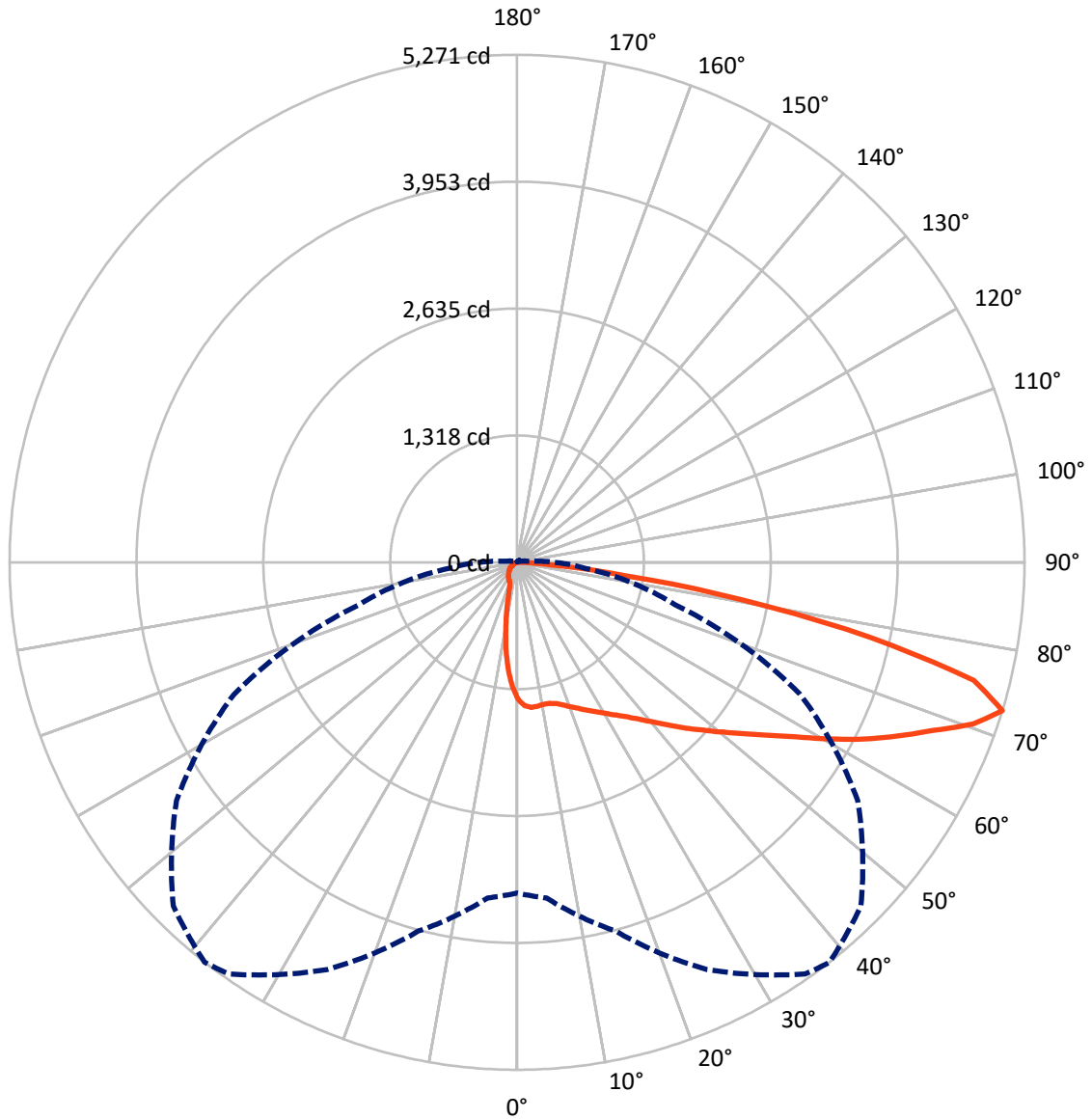
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	651.2	0.0	651.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	7086.8	0.0	7086.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	7738.0	0.0	7738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.3	1.6
10°-20°	296.5	3.8
20°-30°	471.6	6.1
30°-40°	709.0	9.2
40°-50°	1081.7	14.0
50°-60°	1528.8	19.8
60°-70°	1917.6	24.8
70°-80°	1433.8	18.5
80°-90°	177.8	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°	7738.0	100.0
0°-180°	7738.0	100.0

**Coefficient of Utilization**

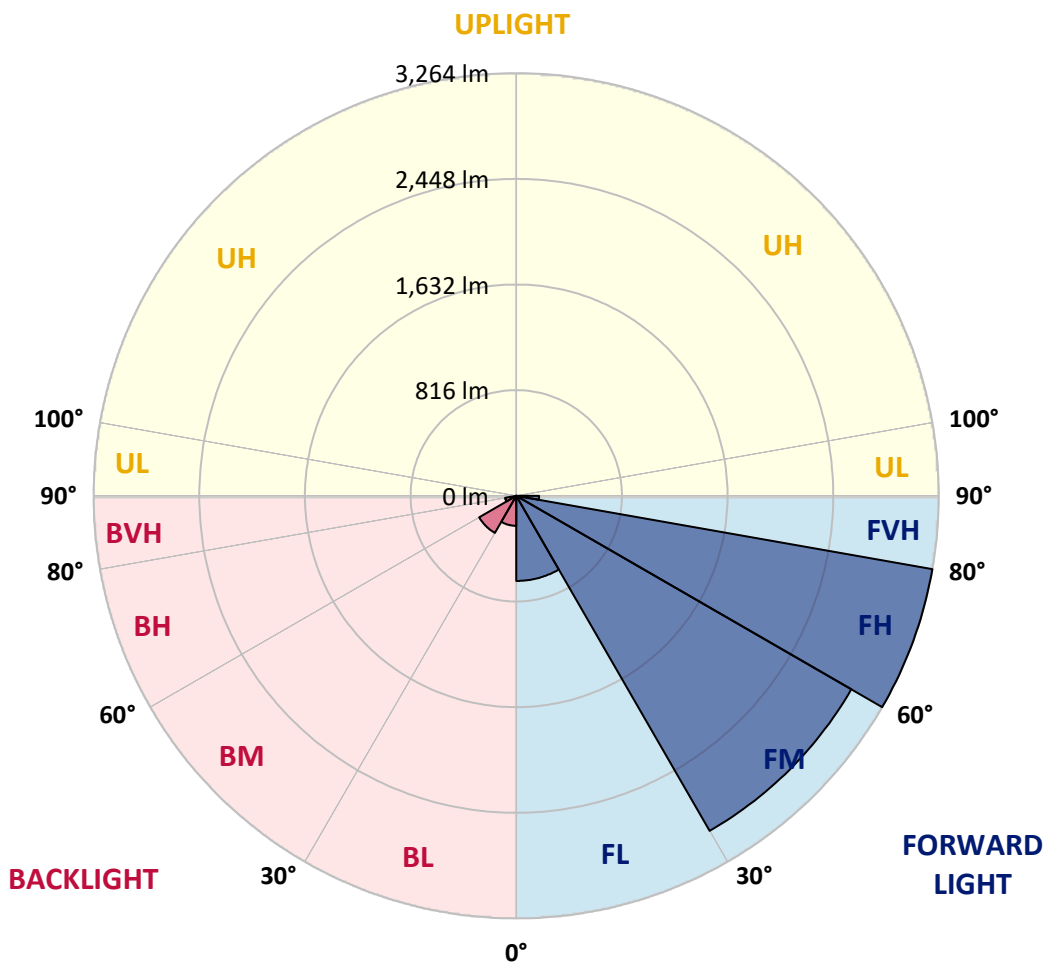


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	657.5	8.5			
FM (30°-60°)	2988.8	38.6			
FH (60°-80°)	3264.4	42.2			G2/5000
FVH (80°-90°)	176.1	2.3			G2/225
BL (0°-30°)	231.9	3.0	B1/500		
BM (30°-60°)	330.7	4.3	B1/1000		
BH (60°-80°)	87.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1510.4	1510.7	1507.2	1501.4	1494.0	1490.2	1483.7	1473.4	1462.5	1442.9	1421.7
5°	1541.3	1541.3	1536.8	1529.0	1517.2	1513.6	1501.4	1485.0	1462.5	1430.7	1395.0
7.5°	1538.0	1538.7	1532.6	1524.5	1512.7	1509.4	1494.7	1476.3	1448.4	1409.8	1364.2
10°	1521.3	1522.9	1518.1	1514.3	1503.3	1499.8	1486.0	1467.7	1439.7	1398.6	1346.2
12.5°	1504.3	1505.9	1507.5	1511.0	1504.3	1503.0	1492.1	1476.7	1450.0	1407.2	1348.1
15°	1493.4	1496.6	1508.2	1522.0	1523.6	1522.3	1515.2	1500.8	1473.8	1429.4	1361.9
17.5°	1493.4	1498.5	1522.6	1549.0	1558.3	1559.3	1553.1	1532.9	1500.8	1453.2	1374.8
20°	1505.9	1513.0	1550.6	1587.9	1603.3	1603.3	1591.4	1563.1	1525.5	1474.7	1383.5
22.5°	1538.0	1547.4	1594.6	1637.7	1654.1	1650.5	1634.4	1593.3	1551.2	1499.2	1394.4
25°	1601.3	1608.4	1657.6	1701.0	1710.9	1702.9	1682.7	1630.0	1584.0	1532.3	1414.3
27.5°	1683.0	1683.9	1734.7	1771.3	1765.2	1759.8	1734.4	1675.9	1631.2	1579.5	1448.7
30°	1772.6	1772.6	1817.3	1845.3	1826.6	1822.1	1796.7	1731.5	1691.7	1643.8	1497.5
32.5°	1859.4	1863.3	1899.6	1917.2	1896.4	1891.9	1867.1	1801.9	1772.0	1741.8	1573.7
35°	1943.3	1946.2	1980.6	1990.2	1970.3	1971.6	1953.9	1898.6	1887.4	1883.5	1688.4
37.5°	2024.6	2025.2	2060.3	2066.4	2056.4	2067.3	2068.9	2020.1	2041.0	2072.1	1850.1
40°	2098.8	2099.5	2134.2	2149.9	2166.9	2181.1	2193.6	2167.6	2236.7	2309.0	2042.6
42.5°	2158.3	2165.0	2209.0	2238.9	2283.9	2310.9	2345.0	2343.7	2469.7	2578.3	2275.2
45°	2210.7	2222.2	2283.6	2336.0	2413.1	2456.2	2509.5	2551.3	2731.9	2878.1	2510.8
47.5°	2279.7	2290.7	2360.7	2446.5	2549.4	2605.9	2694.3	2784.6	3020.2	3172.5	2740.9
50°	2377.1	2372.3	2441.4	2564.5	2696.6	2770.8	2896.8	3032.1	3306.2	3428.9	2876.2
52.5°	2480.9	2479.0	2530.1	2692.7	2870.1	2956.9	3123.3	3287.9	3579.7	3605.7	2938.2
55°	2609.5	2595.6	2638.7	2838.9	3076.1	3169.3	3365.3	3541.1	3797.5	3705.3	2969.4
57.5°	2744.1	2721.3	2762.4	3001.8	3308.4	3418.7	3633.3	3787.9	3942.5	3773.4	2969.1
60°	2883.3	2856.3	2905.1	3205.6	3597.0	3724.6	3923.8	3954.7	4077.8	3807.8	2947.2
62.5°	2999.6	2983.5	3056.2	3423.5	3919.3	4044.7	4143.3	4106.4	4191.9	3834.5	2896.1
65°	3122.7	3123.6	3240.9	3677.7	4261.9	4346.4	4354.8	4303.0	4287.3	3829.0	2723.2
67.5°	3289.1	3304.6	3500.3	4022.8	4595.2	4660.4	4659.8	4516.1	4357.0	3611.8	2339.8
70°	3465.3	3501.6	3799.1	4417.8	4958.9	5025.1	4991.1	4651.7	4102.5	2920.5	1656.0
72.5°	3435.7	3498.7	3965.3	4666.8	5220.2	5270.7	5049.2	4318.5	3242.5	1697.4	705.1
75°	2650.6	2723.5	3635.9	4420.0	4946.1	4900.8	4338.4	3360.5	1772.0	473.7	158.8
77.5°	1400.2	1439.1	2401.9	3367.2	3856.7	3761.9	3056.2	1864.2	540.2	117.3	71.3
80°	733.3	742.3	1046.7	1910.5	2380.3	2381.0	1811.2	818.8	222.7	60.1	47.9
82.5°	392.7	400.4	553.1	882.8	1247.2	1130.6	693.5	450.6	129.5	34.1	46.0
85°	94.5	96.1	313.6	403.3	490.4	350.3	206.0	378.2	35.0	19.9	37.3
87.5°	36.3	37.0	116.3	174.5	125.0	81.0	96.4	141.1	4.5	7.7	5.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P323826

CATALOG NUMBER: GAN-SA2A-740-U-SL4-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0	1423.0
2.5°	1408.9	1400.5	1379.9	1353.9	1330.8	1314.1	1289.0	1272.6	1261.7	1261.3	1257.2
5°	1373.2	1356.1	1311.8	1259.1	1211.2	1168.2	1117.4	1077.2	1047.3	1042.5	1032.2
7.5°	1334.9	1307.0	1238.9	1156.6	1076.2	994.6	899.8	841.0	790.6	766.4	763.9
10°	1311.5	1272.3	1175.5	1056.6	930.7	797.9	673.9	588.1	526.1	508.4	495.2
12.5°	1306.7	1254.9	1126.7	962.8	782.8	607.4	470.2	378.9	329.4	313.6	309.5
15°	1311.5	1246.9	1085.6	869.9	633.1	430.9	315.6	262.6	243.9	239.4	239.1
17.5°	1314.4	1237.2	1039.0	766.8	487.8	307.9	241.7	226.2	223.3	223.0	223.7
20°	1314.1	1222.5	983.4	651.7	362.8	242.0	218.5	215.3	214.7	215.0	214.7
22.5°	1311.8	1205.1	922.3	533.1	274.1	216.3	208.6	206.6	206.3	206.3	206.3
25°	1316.0	1191.3	855.1	419.7	225.9	204.4	199.6	198.0	197.6	197.6	197.0
27.5°	1331.1	1183.6	781.6	323.0	204.1	193.8	189.9	189.6	188.6	188.3	189.0
30°	1355.5	1183.6	700.9	251.3	190.9	182.9	180.0	179.3	179.0	178.7	179.0
32.5°	1398.6	1192.6	612.8	208.9	178.4	170.6	168.7	169.7	168.7	168.7	168.7
35°	1476.3	1219.6	520.6	182.2	165.2	158.8	156.8	158.1	157.5	157.5	157.1
37.5°	1589.8	1269.7	427.7	166.1	153.6	146.9	144.3	146.2	145.6	145.6	145.3
40°	1728.0	1342.7	339.4	153.9	142.4	135.3	133.0	134.0	132.4	132.4	133.0
42.5°	1898.6	1435.2	262.2	142.0	131.1	124.4	123.1	122.1	119.2	117.6	117.9
45°	2088.2	1531.6	204.4	130.5	120.5	115.0	113.1	110.5	105.7	102.5	102.8
47.5°	2257.6	1605.8	166.1	119.2	110.9	106.7	103.8	99.0	91.9	88.1	88.4
50°	2346.6	1617.1	141.4	108.0	101.9	97.7	93.5	86.1	77.8	73.6	73.3
52.5°	2369.4	1564.4	123.1	97.7	92.9	88.1	82.6	72.6	63.3	58.8	58.2
55°	2377.8	1484.1	106.7	88.1	83.2	77.8	70.7	59.5	50.8	46.3	46.0
57.5°	2350.1	1364.2	93.8	79.4	73.6	66.8	58.2	47.6	39.2	35.7	35.7
60°	2288.7	1201.9	83.9	70.1	63.6	55.9	46.9	37.0	29.2	26.4	26.4
62.5°	2166.3	991.7	74.6	60.4	54.3	46.3	37.9	28.0	20.6	19.0	19.3
65°	1935.2	752.3	65.2	51.7	46.3	38.2	29.6	19.9	13.8	13.8	14.5
67.5°	1578.2	522.5	55.6	44.0	39.8	31.2	22.5	13.8	9.6	10.9	12.2
70°	1044.7	293.1	47.6	36.3	34.1	24.7	16.7	9.3	7.7	10.3	12.5
72.5°	394.3	114.1	39.8	29.2	29.6	19.0	11.9	7.1	7.1	11.2	14.8
75°	109.9	55.9	28.6	21.5	23.1	13.8	8.7	6.1	6.7	12.9	17.4
77.5°	64.6	41.1	18.6	12.5	15.7	9.6	5.8	4.8	5.8	10.9	16.7
80°	52.1	21.9	10.9	6.4	8.7	5.5	3.9	2.9	1.6	4.2	8.7
82.5°	52.1	13.2	5.1	4.5	4.5	2.9	1.9	1.3	0.3	0.0	2.2
85°	35.0	5.5	3.2	2.9	2.2	1.0	0.6	0.3	0.0	0.0	0.0
87.5°	5.8	2.2	1.3	0.6	0.3	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)