

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: P323956

Luminaire Tested: **GAN-SA2B-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323956
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-SA2B-827-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA 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: 6976 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

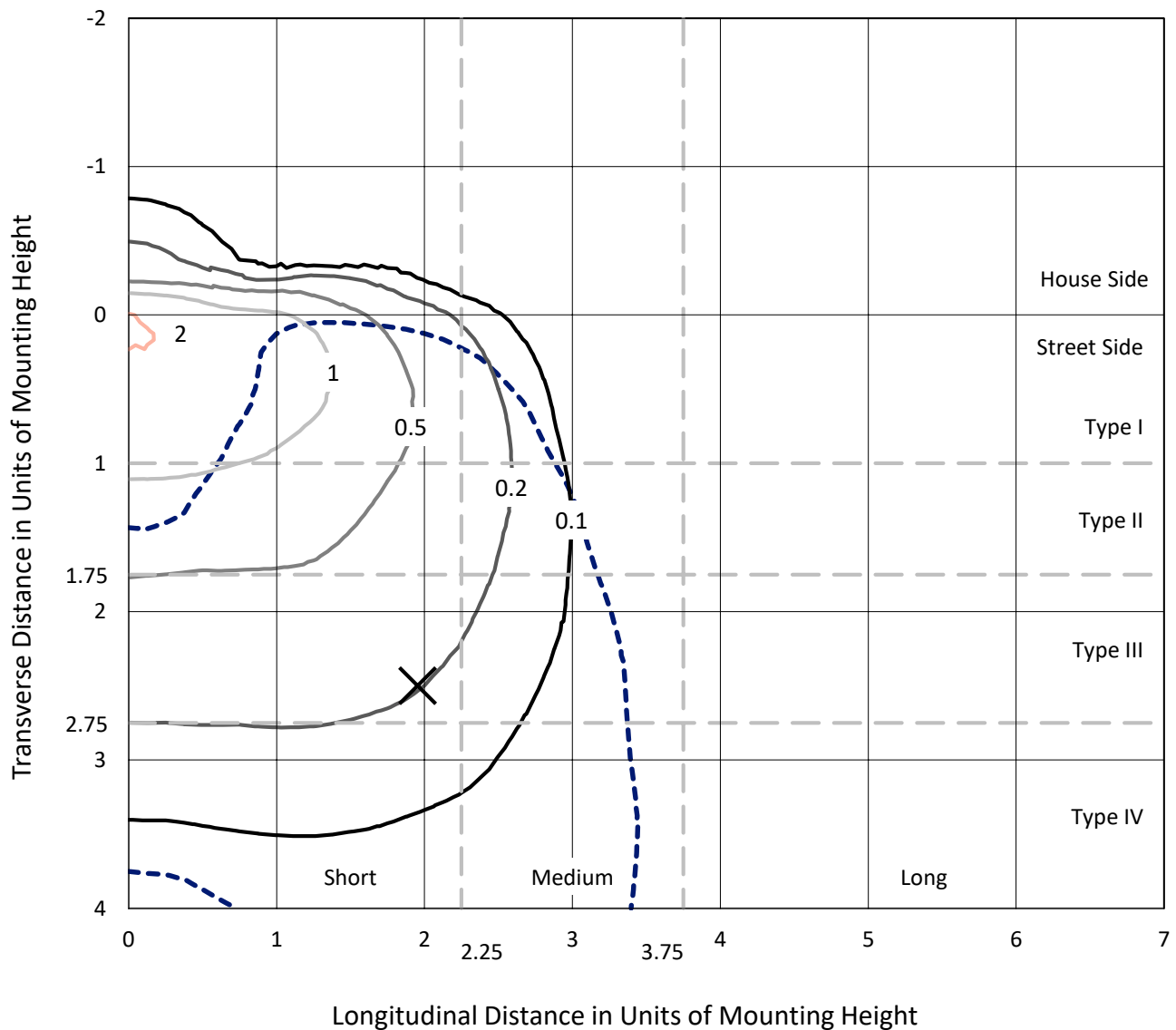
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

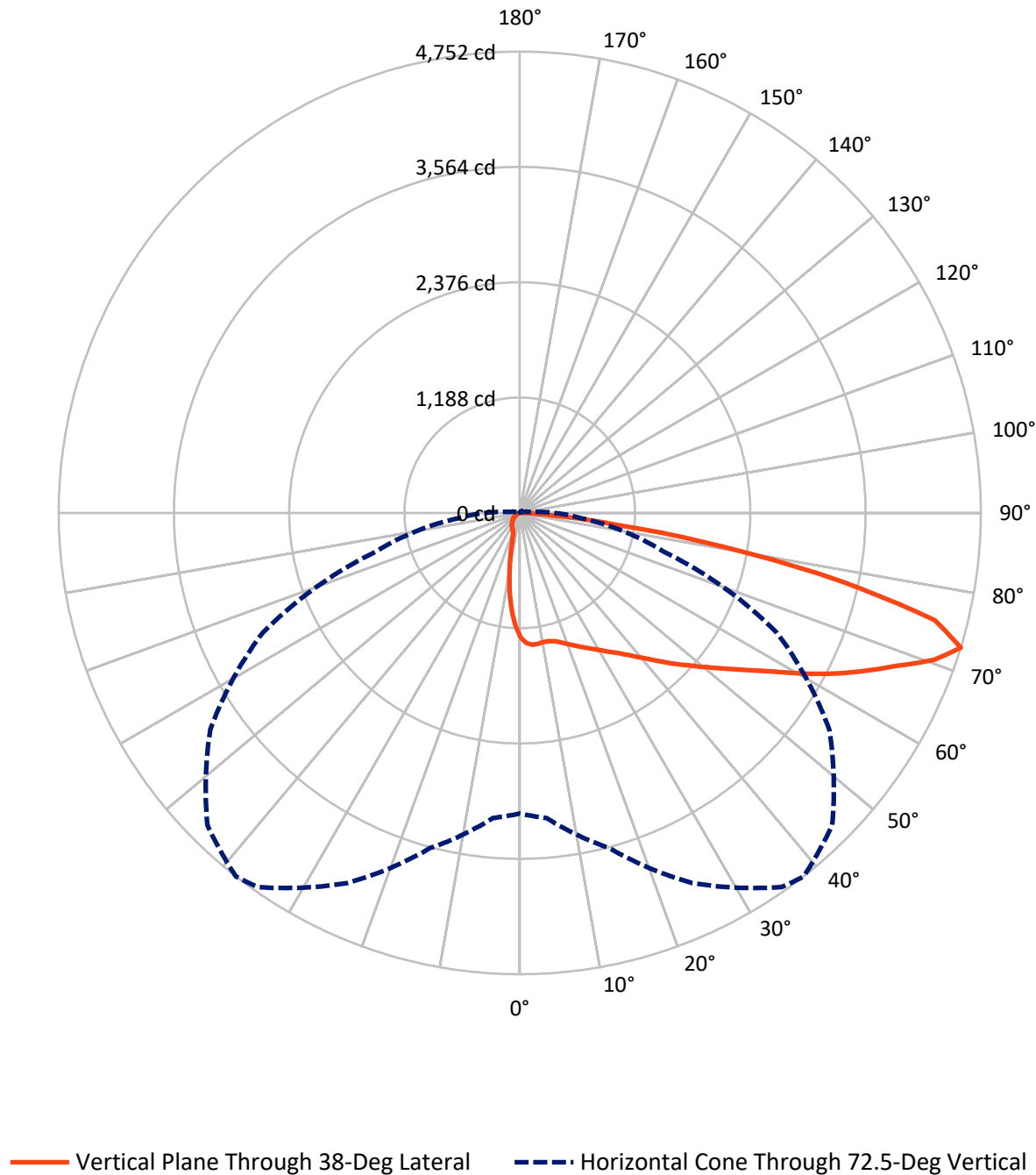
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	587.1	0.0	587.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6388.9	0.0	6388.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	6976.0	0.0	6976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	1.6
10°-20°	267.3	3.8
20°-30°	425.2	6.1
30°-40°	639.2	9.2
40°-50°	975.1	14.0
50°-60°	1378.2	19.8
60°-70°	1728.7	24.8
70°-80°	1292.6	18.5
80°-90°	160.3	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°	6976.0	100.0
0°-180°	6976.0	100.0

Coefficient of Utilization



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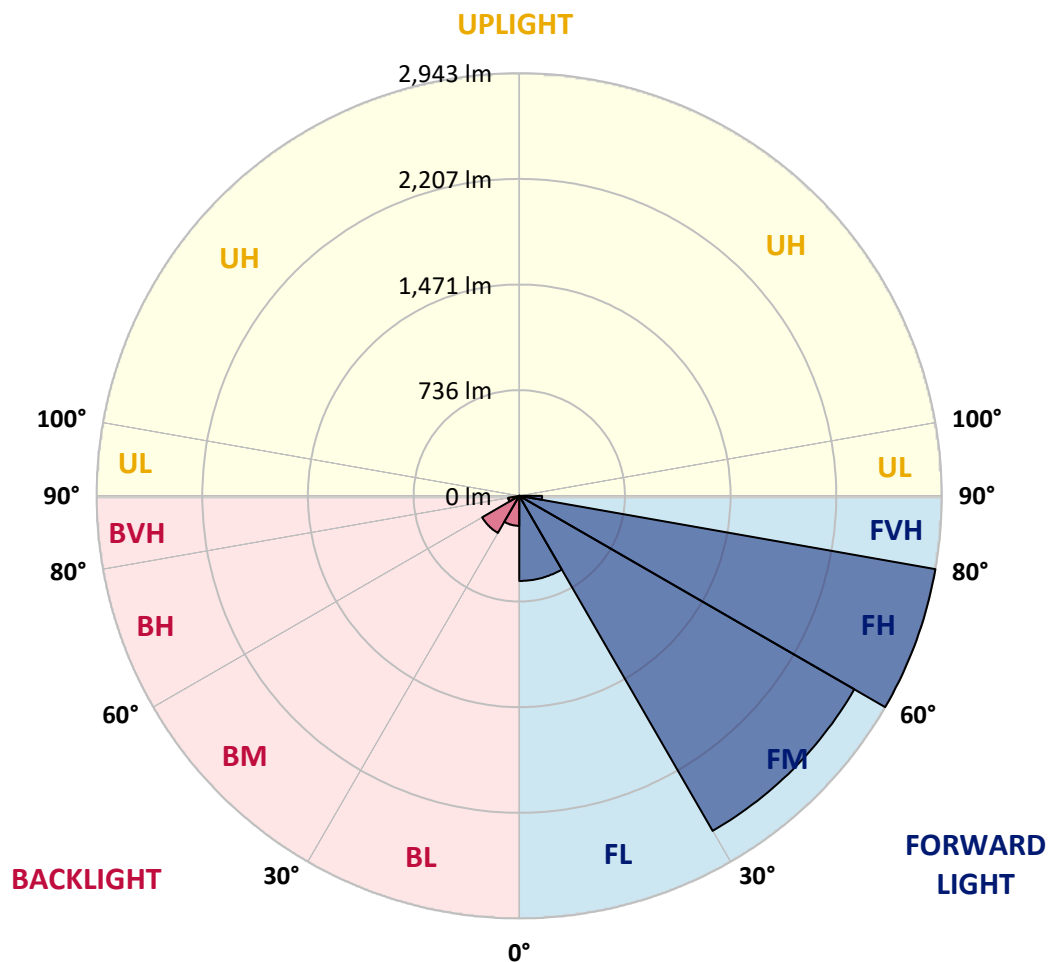
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	592.8	8.5			
FM	(30°-60°)	2694.4	38.6			
FH	(60°-80°)	2942.9	42.2			G2/5000
FVH	(80°-90°)	158.8	2.3			G2/225
BL	(0°-30°)	209.0	3.0	B1/500		
BM	(30°-60°)	298.1	4.3	B1/1000		
BH	(60°-80°)	78.4	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1361.7	1362.0	1358.8	1353.6	1346.9	1343.4	1337.6	1328.3	1318.5	1300.8	1281.7
5°	1389.5	1389.5	1385.4	1378.5	1367.8	1364.6	1353.6	1338.8	1318.5	1289.8	1257.7
7.5°	1386.6	1387.2	1381.7	1374.4	1363.7	1360.8	1347.5	1331.0	1305.8	1271.0	1229.8
10°	1371.5	1373.0	1368.6	1365.1	1355.3	1352.1	1339.6	1323.1	1297.9	1260.8	1213.6
12.5°	1356.2	1357.6	1359.1	1362.2	1356.2	1355.0	1345.2	1331.2	1307.2	1268.7	1215.4
15°	1346.3	1349.2	1359.6	1372.1	1373.5	1372.4	1366.0	1353.0	1328.6	1288.7	1227.8
17.5°	1346.3	1350.9	1372.7	1396.4	1404.8	1405.7	1400.2	1381.9	1353.0	1310.1	1239.4
20°	1357.6	1364.0	1397.9	1431.5	1445.4	1445.4	1434.7	1409.2	1375.3	1329.5	1247.2
22.5°	1386.6	1395.0	1437.6	1476.4	1491.2	1488.0	1473.5	1436.4	1398.5	1351.5	1257.1
25°	1443.7	1450.0	1494.4	1533.5	1542.4	1535.2	1517.0	1469.4	1428.0	1381.4	1275.0
27.5°	1517.2	1518.1	1563.9	1596.9	1591.4	1586.5	1563.6	1510.9	1470.6	1424.0	1306.0
30°	1598.1	1598.1	1638.3	1663.6	1646.7	1642.7	1619.8	1561.0	1525.1	1481.9	1350.1
32.5°	1676.3	1679.8	1712.5	1728.4	1709.6	1705.6	1683.3	1624.4	1597.5	1570.3	1418.7
35°	1751.9	1754.5	1785.5	1794.2	1776.3	1777.4	1761.5	1711.6	1701.5	1698.0	1522.2
37.5°	1825.2	1825.8	1857.4	1862.9	1853.9	1863.7	1865.2	1821.2	1840.0	1868.1	1667.9
40°	1892.1	1892.7	1924.0	1938.2	1953.6	1966.3	1977.6	1954.1	2016.4	2081.6	1841.4
42.5°	1945.7	1951.8	1991.5	2018.5	2059.0	2083.3	2114.1	2112.9	2226.5	2324.4	2051.2
45°	1993.0	2003.4	2058.7	2105.9	2175.5	2214.3	2262.4	2300.1	2462.9	2594.7	2263.6
47.5°	2055.2	2065.1	2128.3	2205.6	2298.3	2349.3	2429.0	2510.4	2722.8	2860.1	2471.0
50°	2143.0	2138.7	2201.0	2311.9	2431.0	2497.9	2611.5	2733.5	2980.6	3091.3	2593.0
52.5°	2236.6	2234.9	2280.9	2427.5	2587.5	2665.7	2815.8	2964.1	3227.1	3250.6	2648.9
55°	2352.5	2340.0	2378.9	2559.4	2773.2	2857.2	3033.9	3192.4	3423.6	3340.4	2677.0
57.5°	2473.9	2453.3	2490.4	2706.2	2982.6	3082.0	3275.5	3414.9	3554.2	3401.8	2676.7
60°	2599.3	2575.0	2619.0	2889.9	3242.8	3357.8	3537.4	3565.2	3676.2	3432.8	2657.0
62.5°	2704.2	2689.7	2755.2	3086.3	3533.4	3646.4	3735.3	3702.0	3779.1	3456.9	2610.9
65°	2815.2	2816.0	2921.8	3315.5	3842.2	3918.4	3925.9	3879.3	3865.1	3452.0	2455.1
67.5°	2965.2	2979.2	3155.6	3626.7	4142.7	4201.5	4200.9	4071.4	3928.0	3256.1	2109.4
70°	3124.0	3156.7	3425.0	3982.7	4470.6	4530.3	4499.6	4193.6	3698.5	2632.9	1492.9
72.5°	3097.4	3154.1	3574.8	4207.3	4706.2	4751.6	4552.0	3893.2	2923.2	1530.3	635.6
75°	2389.6	2455.3	3277.8	3984.8	4459.0	4418.2	3911.2	3029.6	1597.5	427.0	143.1
77.5°	1262.3	1297.3	2165.3	3035.6	3476.9	3391.4	2755.2	1680.6	487.0	105.7	64.3
80°	661.1	669.2	943.6	1722.4	2145.9	2146.5	1632.8	738.2	200.8	54.2	43.2
82.5°	354.0	361.0	498.6	795.9	1124.4	1019.2	625.2	406.2	116.8	30.7	41.4
85°	85.2	86.6	282.8	363.6	442.1	315.8	185.7	341.0	31.6	18.0	33.6
87.5°	32.7	33.3	104.9	157.3	112.7	73.0	86.9	127.2	4.1	7.0	5.2
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°	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9	1282.9
2.5°	1270.1	1262.6	1244.0	1220.6	1199.7	1184.6	1162.1	1147.3	1137.4	1137.1	1133.4
5°	1238.0	1222.6	1182.6	1135.1	1091.9	1053.1	1007.3	971.1	944.2	939.8	930.6
7.5°	1203.5	1178.3	1116.9	1042.7	970.3	896.7	811.2	758.2	712.7	691.0	688.7
10°	1182.3	1147.0	1059.8	952.6	839.0	719.4	607.5	530.2	474.3	458.3	446.5
12.5°	1178.0	1131.3	1015.7	868.0	705.7	547.6	423.9	341.6	297.0	282.8	279.0
15°	1182.3	1124.1	978.7	784.3	570.7	388.5	284.5	236.7	219.9	215.8	215.5
17.5°	1184.9	1115.4	936.7	691.3	439.8	277.5	217.9	204.0	201.4	201.1	201.6
20°	1184.6	1102.1	886.5	587.5	327.1	218.2	197.0	194.1	193.5	193.8	193.5
22.5°	1182.6	1086.4	831.5	480.6	247.1	195.0	188.0	186.3	186.0	186.0	186.0
25°	1186.4	1074.0	770.9	378.4	203.7	184.3	179.9	178.5	178.2	178.2	177.6
27.5°	1200.0	1067.0	704.6	291.2	184.0	174.7	171.2	170.9	170.1	169.8	170.4
30°	1222.0	1067.0	631.9	226.6	172.1	164.8	162.2	161.7	161.4	161.1	161.4
32.5°	1260.8	1075.1	552.5	188.3	160.8	153.8	152.1	153.0	152.1	152.1	152.1
35°	1331.0	1099.5	469.3	164.3	148.9	143.1	141.4	142.5	142.0	142.0	141.7
37.5°	1433.2	1144.7	385.6	149.8	138.5	132.4	130.1	131.8	131.2	131.2	131.0
40°	1557.8	1210.4	305.9	138.8	128.3	122.0	119.9	120.8	119.4	119.4	119.9
42.5°	1711.6	1293.9	236.4	128.1	118.2	112.1	111.0	110.1	107.5	106.0	106.3
45°	1882.6	1380.8	184.3	117.6	108.6	103.7	102.0	99.7	95.3	92.4	92.7
47.5°	2035.3	1447.7	149.8	107.5	100.0	96.2	93.6	89.2	82.9	79.4	79.7
50°	2115.5	1457.9	127.5	97.3	91.8	88.1	84.3	77.6	70.1	66.3	66.1
52.5°	2136.1	1410.3	111.0	88.1	83.7	79.4	74.5	65.5	57.1	53.0	52.4
55°	2143.6	1337.9	96.2	79.4	75.0	70.1	63.7	53.6	45.8	41.7	41.4
57.5°	2118.7	1229.8	84.6	71.6	66.3	60.3	52.4	42.9	35.3	32.2	32.2
60°	2063.4	1083.5	75.6	63.2	57.4	50.4	42.3	33.3	26.4	23.8	23.8
62.5°	1953.0	894.1	67.2	54.5	49.0	41.7	34.2	25.2	18.5	17.1	17.4
65°	1744.7	678.2	58.8	46.6	41.7	34.5	26.7	18.0	12.5	12.5	13.0
67.5°	1422.8	471.1	50.1	39.7	35.9	28.1	20.3	12.5	8.7	9.9	11.0
70°	941.9	264.2	42.9	32.7	30.7	22.3	15.1	8.4	7.0	9.3	11.3
72.5°	355.5	102.8	35.9	26.4	26.7	17.1	10.7	6.4	6.4	10.1	13.3
75°	99.1	50.4	25.8	19.4	20.9	12.5	7.8	5.5	6.1	11.6	15.6
77.5°	58.2	37.1	16.8	11.3	14.2	8.7	5.2	4.3	5.2	9.9	15.1
80°	46.9	19.7	9.9	5.8	7.8	4.9	3.5	2.6	1.4	3.8	7.8
82.5°	46.9	11.9	4.6	4.1	4.1	2.6	1.7	1.2	0.3	0.0	2.0
85°	31.6	4.9	2.9	2.6	2.0	0.9	0.6	0.3	0.0	0.0	0.0
87.5°	5.2	2.0	1.2	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)