

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: P323986

Luminaire Tested: **GAN-SA2A-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323986
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-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 6149 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

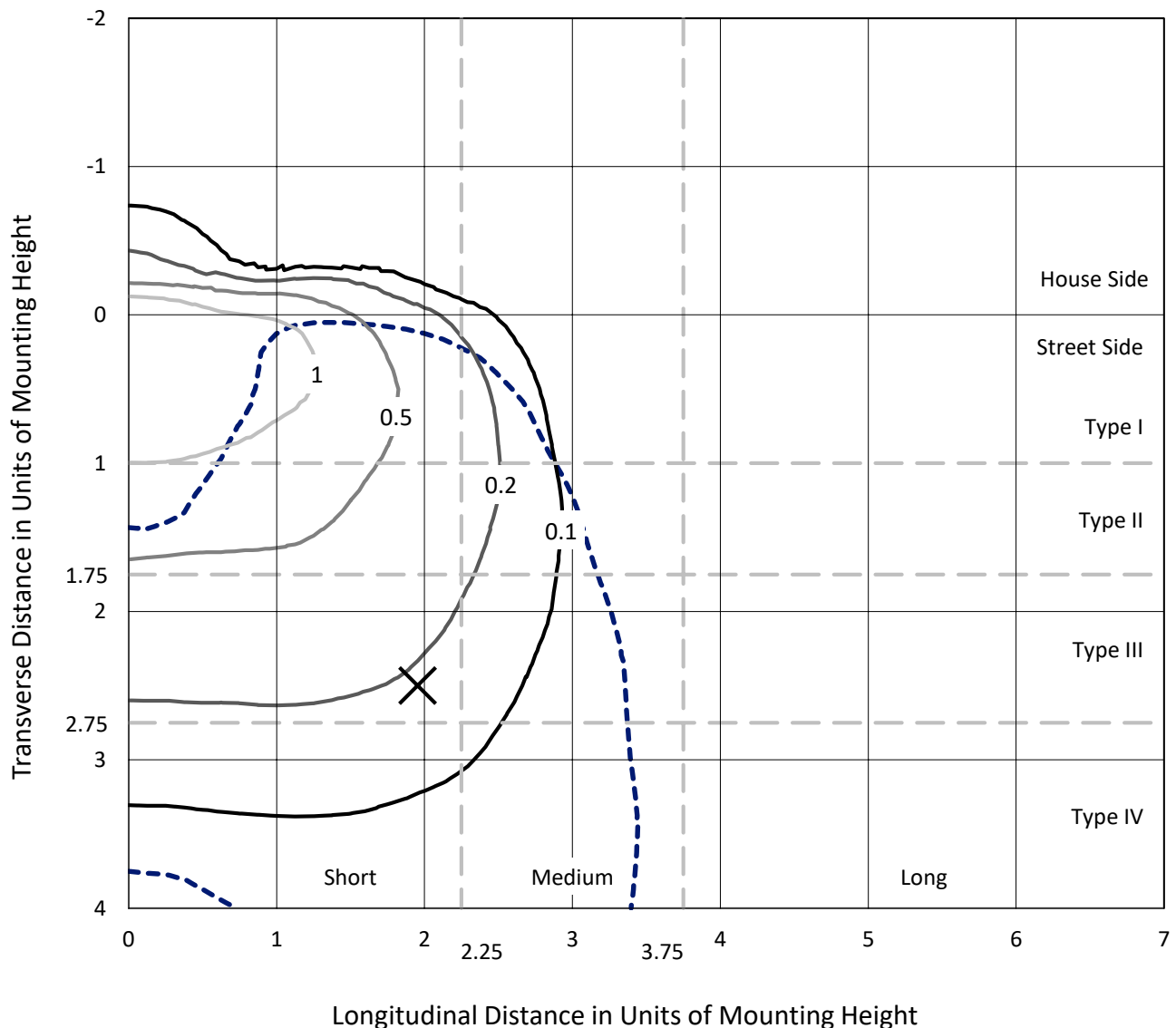
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

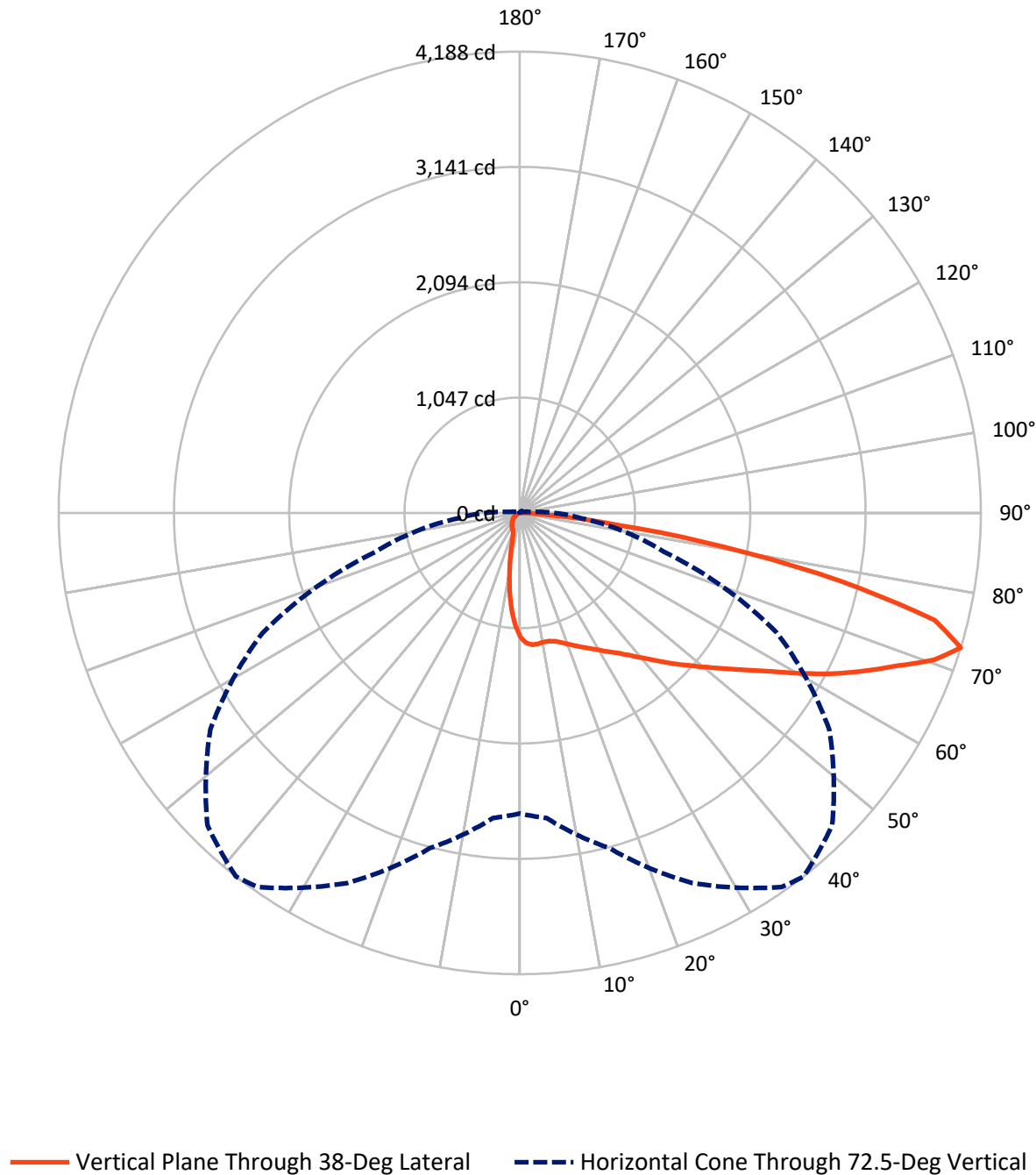
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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	517.5	0.0	517.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	5631.5	0.0	5631.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	6149.0	0.0	6149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.6
10°-20°	235.6	3.8
20°-30°	374.8	6.1
30°-40°	563.4	9.2
40°-50°	859.5	14.0
50°-60°	1214.8	19.8
60°-70°	1523.8	24.8
70°-80°	1139.4	18.5
80°-90°	141.3	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°	6149.0	100.0
0°-180°	6149.0	100.0

Coefficient of Utilization



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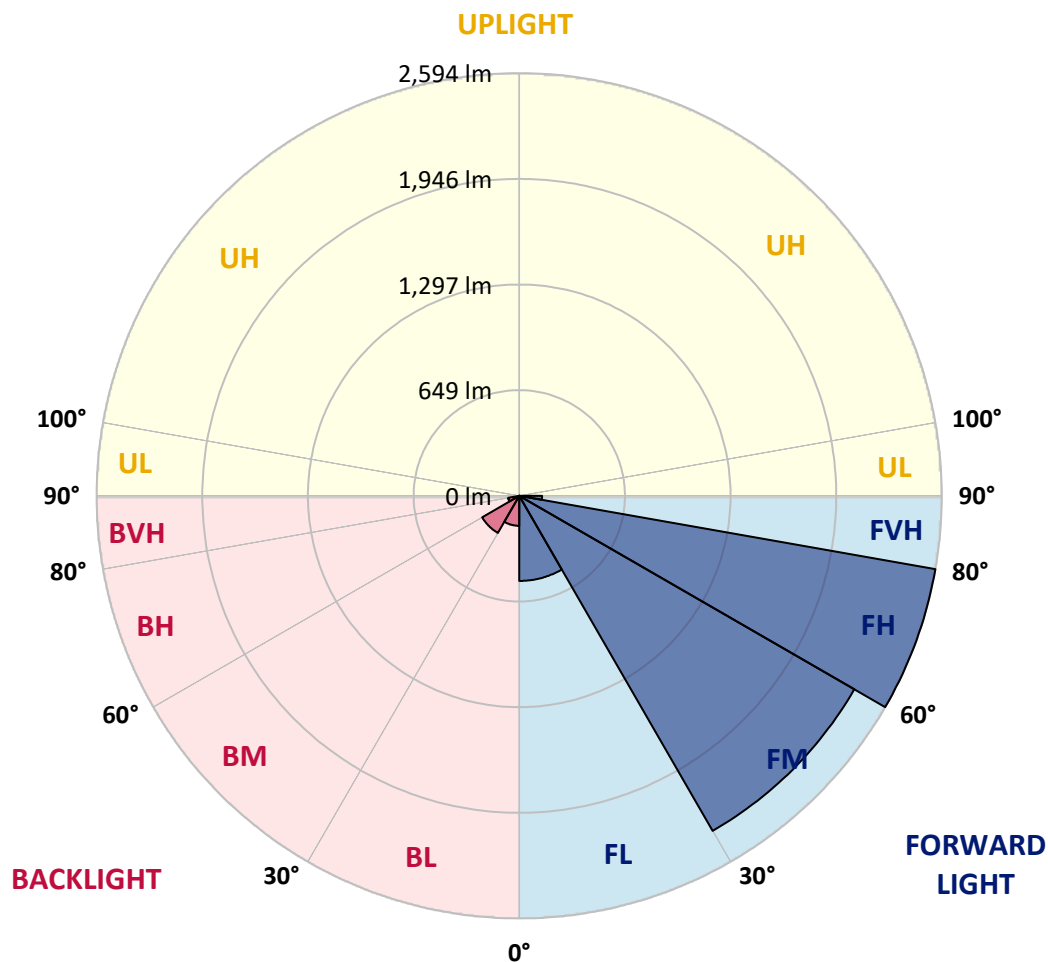
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	522.5	8.5			
FM	(30°-60°)	2375.0	38.6			
FH	(60°-80°)	2594.0	42.2			G2/5000
FVH	(80°-90°)	140.0	2.3			G2/225
BL	(0°-30°)	184.2	3.0	B1/500		
BM	(30°-60°)	262.8	4.3	B1/1000		
BH	(60°-80°)	69.1	1.1	B0/110		G0/110
BVH	(80°-90°)	1.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8
2.5°	1200.2	1200.5	1197.7	1193.1	1187.2	1184.2	1179.0	1170.9	1162.2	1146.6	1129.8
5°	1224.8	1224.8	1221.2	1215.1	1205.6	1202.8	1193.1	1180.1	1162.2	1136.9	1108.6
7.5°	1222.2	1222.7	1217.9	1211.5	1202.0	1199.5	1187.7	1173.2	1151.0	1120.3	1084.0
10°	1208.9	1210.2	1206.4	1203.3	1194.6	1191.8	1180.8	1166.3	1144.1	1111.4	1069.7
12.5°	1195.4	1196.7	1197.9	1200.8	1195.4	1194.4	1185.7	1173.4	1152.2	1118.3	1071.3
15°	1186.7	1189.3	1198.5	1209.4	1210.7	1209.7	1204.1	1192.6	1171.1	1135.9	1082.3
17.5°	1186.7	1190.8	1209.9	1230.9	1238.3	1239.1	1234.2	1218.1	1192.6	1154.8	1092.5
20°	1196.7	1202.3	1232.2	1261.8	1274.0	1274.0	1264.6	1242.1	1212.2	1171.9	1099.4
22.5°	1222.2	1229.6	1267.1	1301.4	1314.4	1311.6	1298.8	1266.1	1232.7	1191.3	1108.1
25°	1272.5	1278.1	1317.2	1351.7	1359.6	1353.2	1337.1	1295.2	1258.7	1217.6	1123.9
27.5°	1337.4	1338.1	1378.5	1407.6	1402.8	1398.4	1378.2	1331.8	1296.3	1255.1	1151.2
30°	1408.6	1408.6	1444.1	1466.3	1451.5	1448.0	1427.8	1375.9	1344.3	1306.2	1190.0
32.5°	1477.6	1480.6	1509.5	1523.5	1506.9	1503.4	1483.7	1431.9	1408.1	1384.1	1250.5
35°	1544.2	1546.5	1573.8	1581.5	1565.7	1566.7	1552.7	1508.7	1499.8	1496.7	1341.7
37.5°	1608.8	1609.3	1637.2	1642.0	1634.1	1642.8	1644.1	1605.3	1621.9	1646.6	1470.2
40°	1667.8	1668.3	1695.9	1708.4	1722.0	1733.2	1743.2	1722.5	1777.4	1834.8	1623.1
42.5°	1715.1	1720.4	1755.4	1779.2	1814.9	1836.4	1863.4	1862.4	1962.5	2048.8	1808.0
45°	1756.7	1765.9	1814.7	1856.3	1917.6	1951.8	1994.2	2027.4	2170.9	2287.1	1995.2
47.5°	1811.6	1820.3	1876.0	1944.1	2025.9	2070.8	2141.0	2212.8	2400.0	2521.0	2178.1
50°	1889.0	1885.1	1940.1	2037.9	2142.8	2201.8	2301.9	2409.4	2627.3	2724.8	2285.6
52.5°	1971.5	1969.9	2010.5	2139.7	2280.7	2349.7	2481.9	2612.7	2844.6	2865.3	2334.9
55°	2073.6	2062.6	2096.8	2255.9	2444.4	2518.5	2674.2	2813.9	3017.7	2944.4	2359.6
57.5°	2180.6	2162.5	2195.2	2385.4	2629.0	2716.6	2887.2	3010.1	3132.9	2998.6	2359.4
60°	2291.2	2269.7	2308.5	2547.3	2858.4	2959.7	3118.1	3142.6	3240.4	3025.9	2342.0
62.5°	2383.6	2370.9	2428.6	2720.5	3114.5	3214.1	3292.5	3263.1	3331.1	3047.1	2301.4
65°	2481.4	2482.2	2575.4	2922.5	3386.7	3453.9	3460.5	3419.4	3406.9	3042.7	2164.0
67.5°	2613.7	2626.0	2781.5	3196.7	3651.5	3703.4	3702.9	3588.7	3462.3	2870.1	1859.4
70°	2753.7	2782.5	3019.0	3510.6	3940.6	3993.2	3966.2	3696.5	3260.1	2320.8	1315.9
72.5°	2730.2	2780.2	3151.0	3708.5	4148.2	4188.3	4012.4	3431.7	2576.7	1348.9	560.3
75°	2106.3	2164.3	2889.3	3512.4	3930.4	3894.4	3447.5	2670.4	1408.1	376.4	126.2
77.5°	1112.6	1143.5	1908.6	2675.8	3064.7	2989.4	2428.6	1481.4	429.3	93.2	56.7
80°	582.8	589.9	831.7	1518.2	1891.5	1892.0	1439.3	650.7	177.0	47.8	38.1
82.5°	312.1	318.2	439.5	701.5	991.1	898.4	551.1	358.0	102.9	27.1	36.5
85°	75.1	76.4	249.2	320.5	389.7	278.4	163.7	300.6	27.8	15.8	29.6
87.5°	28.9	29.4	92.4	138.7	99.3	64.4	76.6	112.1	3.6	6.1	4.6
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°	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8	1130.8
2.5°	1119.5	1112.9	1096.6	1075.9	1057.5	1044.2	1024.3	1011.3	1002.6	1002.3	999.0
5°	1091.2	1077.7	1042.4	1000.5	962.5	928.3	887.9	856.0	832.3	828.4	820.3
7.5°	1060.8	1038.6	984.5	919.1	855.2	790.4	715.0	668.3	628.2	609.1	607.0
10°	1042.2	1011.0	934.1	839.7	739.6	634.1	535.5	467.3	418.0	404.0	393.5
12.5°	1038.3	997.2	895.3	765.1	622.1	482.7	373.6	301.1	261.8	249.2	245.9
15°	1042.2	990.8	862.6	691.3	503.1	342.5	250.8	208.6	193.8	190.3	190.0
17.5°	1044.5	983.2	825.6	609.3	387.7	244.6	192.0	179.8	177.5	177.2	177.7
20°	1044.2	971.4	781.4	517.9	288.3	192.3	173.7	171.1	170.6	170.8	170.6
22.5°	1042.4	957.6	732.9	423.7	217.8	171.9	165.7	164.2	163.9	163.9	163.9
25°	1045.7	946.7	679.5	333.5	179.5	162.4	158.6	157.3	157.1	157.1	156.5
27.5°	1057.7	940.5	621.1	256.6	162.2	154.0	150.9	150.7	149.9	149.6	150.2
30°	1077.2	940.5	557.0	199.7	151.7	145.3	143.0	142.5	142.2	142.0	142.2
32.5°	1111.4	947.7	487.0	166.0	141.7	135.6	134.1	134.8	134.1	134.1	134.1
35°	1173.2	969.1	413.7	144.8	131.3	126.2	124.6	125.6	125.1	125.1	124.9
37.5°	1263.3	1009.0	339.9	132.0	122.1	116.7	114.7	116.2	115.7	115.7	115.4
40°	1373.1	1066.9	269.7	122.3	113.1	107.5	105.7	106.5	105.2	105.2	105.7
42.5°	1508.7	1140.5	208.4	112.9	104.2	98.8	97.8	97.0	94.7	93.5	93.7
45°	1659.4	1217.1	162.4	103.7	95.8	91.4	89.9	87.8	84.0	81.5	81.7
47.5°	1794.0	1276.1	132.0	94.7	88.1	84.8	82.5	78.7	73.0	70.0	70.2
50°	1864.7	1285.0	112.4	85.8	81.0	77.6	74.3	68.4	61.8	58.5	58.2
52.5°	1882.8	1243.1	97.8	77.6	73.8	70.0	65.6	57.7	50.3	46.7	46.2
55°	1889.5	1179.3	84.8	70.0	66.1	61.8	56.2	47.2	40.3	36.8	36.5
57.5°	1867.5	1084.0	74.6	63.1	58.5	53.1	46.2	37.8	31.2	28.3	28.3
60°	1818.7	955.1	66.7	55.7	50.6	44.4	37.3	29.4	23.2	20.9	20.9
62.5°	1721.5	788.1	59.2	48.0	43.2	36.8	30.1	22.2	16.3	15.1	15.3
65°	1537.8	597.8	51.8	41.1	36.8	30.4	23.5	15.8	11.0	11.0	11.5
67.5°	1254.1	415.2	44.2	35.0	31.7	24.8	17.9	11.0	7.7	8.7	9.7
70°	830.2	232.9	37.8	28.9	27.1	19.7	13.3	7.4	6.1	8.2	10.0
72.5°	313.3	90.7	31.7	23.2	23.5	15.1	9.4	5.6	5.6	8.9	11.7
75°	87.3	44.4	22.7	17.1	18.4	11.0	6.9	4.9	5.4	10.2	13.8
77.5°	51.3	32.7	14.8	10.0	12.5	7.7	4.6	3.8	4.6	8.7	13.3
80°	41.4	17.4	8.7	5.1	6.9	4.3	3.1	2.3	1.3	3.3	6.9
82.5°	41.4	10.5	4.1	3.6	3.6	2.3	1.5	1.0	0.3	0.0	1.8
85°	27.8	4.3	2.6	2.3	1.8	0.8	0.5	0.3	0.0	0.0	0.0
87.5°	4.6	1.8	1.0	0.5	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)