

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: P322206

Luminaire Tested: **GAN-SA2C-730-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9603 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

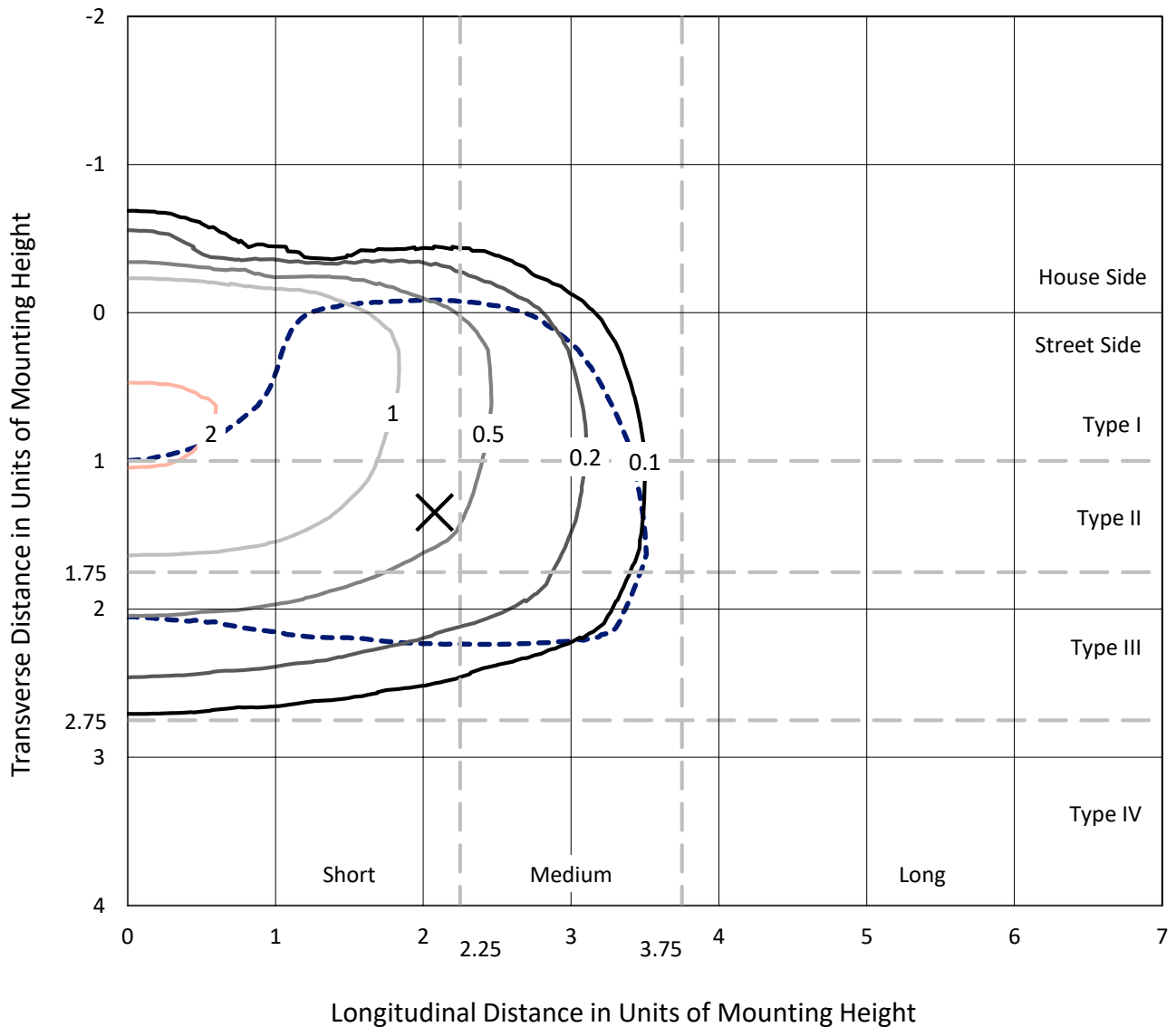
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

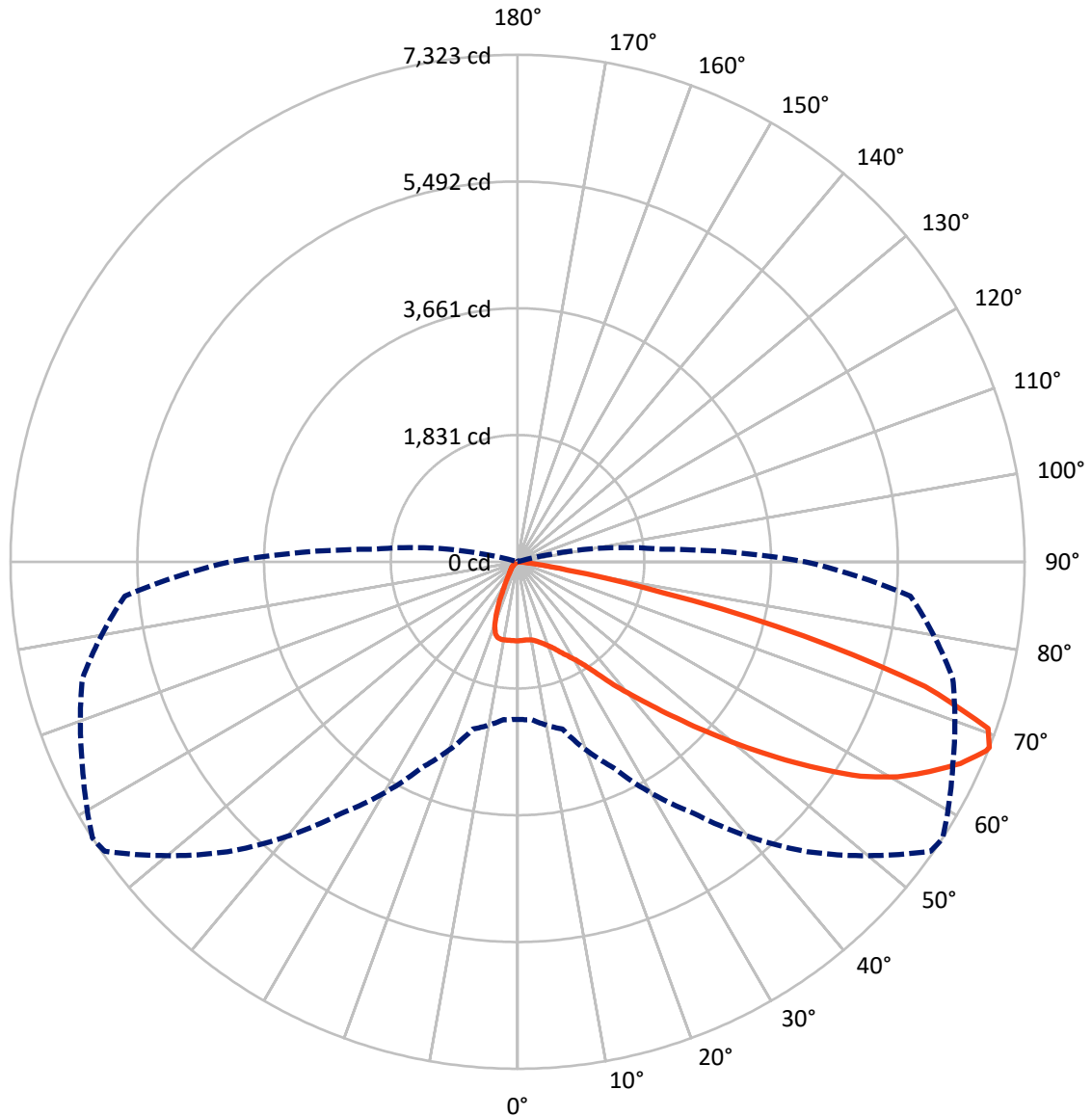
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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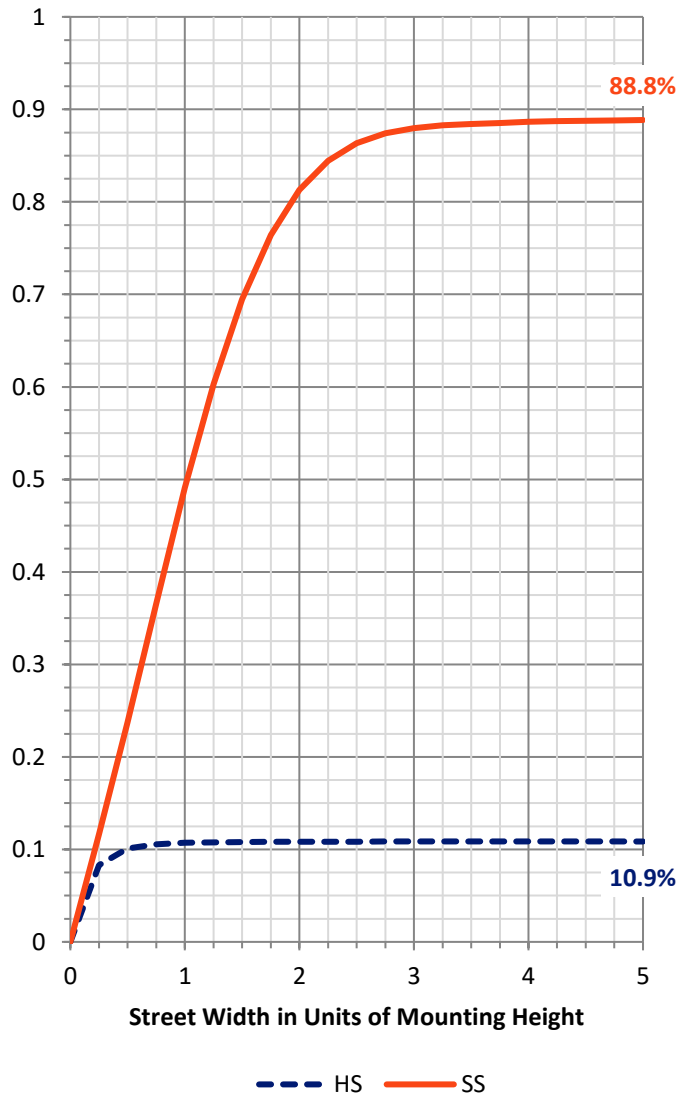
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1053.0	0.0	1053.0
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	8550.0	0.0	8550.0
	% Fixture	89.0	0.0	89.0
Total	Lumens	9603.0	0.0	9603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	1.1
10°-20°	295.9	3.1
20°-30°	510.5	5.3
30°-40°	881.1	9.2
40°-50°	1507.1	15.7
50°-60°	2411.2	25.1
60°-70°	2785.9	29.0
70°-80°	1064.5	11.1
80°-90°	39.9	0.4
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°	9603.0	100.0
0°-180°	9603.0	100.0

Coefficient of Utilization



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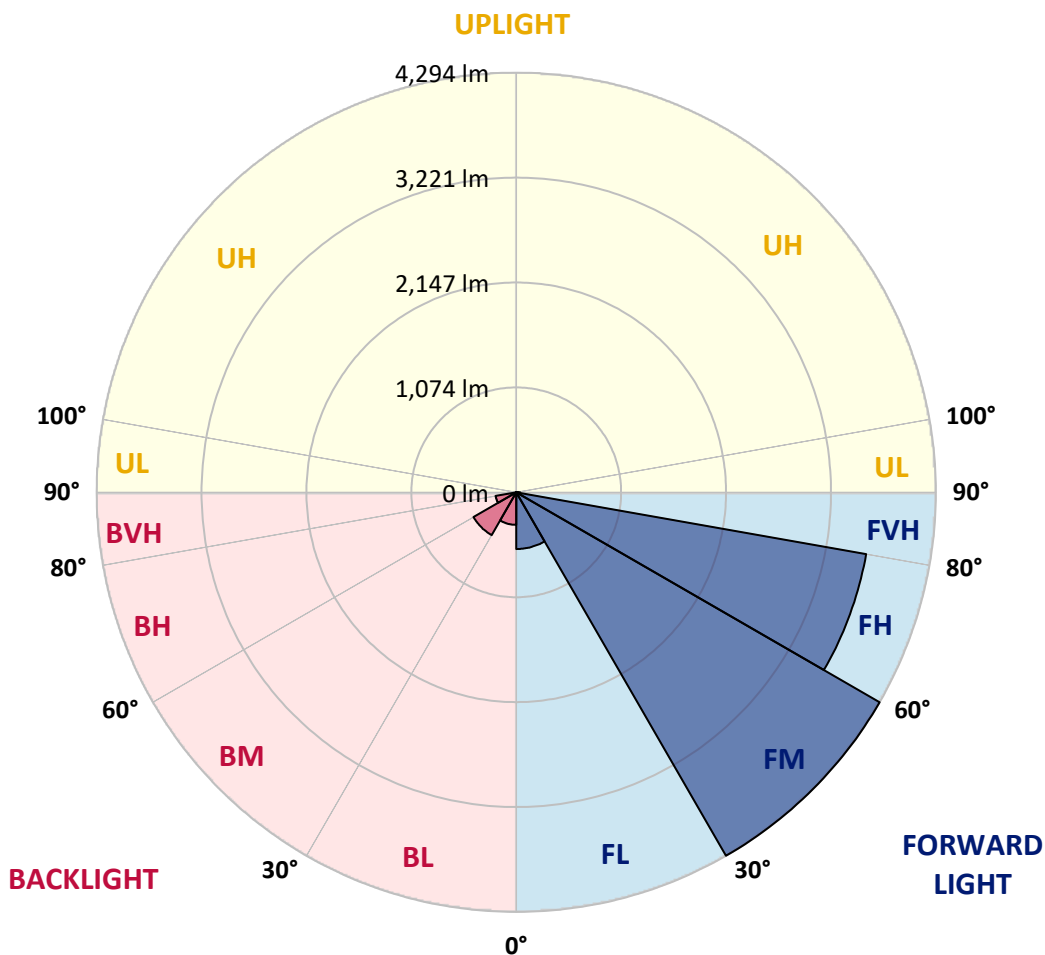
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.4	6.0			
FM (30°-60°)	4294.4	44.7			
FH (60°-80°)	3636.0	37.9			G2/5000
FVH (80°-90°)	39.2	0.4			G1/100
BL (0°-30°)	332.8	3.5	B1/500		
BM (30°-60°)	505.1	5.3	B1/1000		
BH (60°-80°)	214.5	2.2	B1/500		G1/500
BVH (80°-90°)	0.7	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1114.3	1119.3	1122.9	1125.2	1127.9	1133.8	1135.6	1138.4	1139.7	1139.7	1142.9
5°	1070.3	1075.7	1083.4	1089.8	1102.5	1118.8	1130.6	1135.2	1143.4	1150.6	1154.7
7.5°	1029.4	1035.7	1044.8	1059.8	1081.6	1107.9	1132.5	1138.8	1154.7	1170.2	1177.9
10°	1003.1	1008.0	1019.9	1041.2	1069.8	1106.6	1141.1	1148.8	1176.1	1201.9	1216.5
12.5°	994.0	998.5	1010.8	1034.8	1070.3	1113.4	1161.1	1172.4	1212.4	1250.1	1270.5
15°	1007.1	1008.0	1021.2	1043.9	1078.9	1130.2	1194.2	1207.8	1258.2	1307.3	1332.7
17.5°	1058.0	1053.9	1060.7	1070.7	1098.4	1152.4	1229.2	1249.6	1316.8	1374.5	1398.5
20°	1185.1	1185.1	1169.7	1142.5	1142.9	1187.0	1276.4	1299.6	1381.7	1448.5	1470.3
22.5°	1402.6	1398.5	1367.7	1300.9	1239.6	1246.4	1334.1	1364.0	1459.8	1531.1	1538.4
25°	1664.2	1659.2	1611.5	1517.5	1411.3	1342.7	1412.2	1446.7	1552.9	1616.1	1601.1
27.5°	1941.2	1937.1	1889.9	1773.2	1622.0	1496.2	1505.3	1538.0	1647.8	1710.0	1662.4
30°	2209.5	2210.9	2164.1	2044.2	1873.1	1691.9	1623.3	1642.4	1740.0	1803.1	1735.0
32.5°	2464.7	2466.5	2426.1	2292.2	2132.3	1919.4	1786.8	1781.8	1847.2	1909.4	1831.3
35°	2692.2	2696.7	2669.1	2565.1	2395.7	2172.7	1998.8	1987.0	1999.3	2069.7	1978.9
37.5°	2911.5	2914.3	2893.4	2805.7	2664.1	2451.1	2266.7	2249.9	2223.6	2277.6	2173.7
40°	3151.7	3144.9	3120.9	3041.4	2919.7	2758.5	2554.6	2525.6	2479.7	2527.8	2429.8
42.5°	3375.1	3367.4	3371.5	3281.6	3179.0	3074.5	2890.2	2840.2	2813.4	2868.8	2744.0
45°	3654.4	3650.3	3663.9	3585.8	3502.7	3426.9	3274.8	3220.3	3208.5	3273.4	3124.0
47.5°	3930.0	3940.0	3982.2	3949.1	3915.5	3848.7	3682.1	3657.6	3664.8	3743.4	3525.0
50°	4159.8	4171.6	4287.4	4325.5	4374.1	4335.1	4168.0	4153.0	4181.6	4252.4	3956.4
52.5°	4326.0	4350.0	4494.0	4669.7	4846.8	4873.1	4706.5	4692.9	4731.5	4742.4	4289.6
55°	4441.3	4462.6	4625.7	4947.1	5307.7	5421.2	5317.7	5265.0	5257.7	5150.1	4640.2
57.5°	4461.7	4459.5	4693.8	5126.5	5669.1	5962.0	5896.6	5844.8	5695.9	5527.0	5042.0
60°	4346.4	4359.6	4631.6	5188.7	5896.2	6371.1	6376.1	6308.9	6076.9	5893.4	5431.6
62.5°	3991.3	4044.9	4319.6	5025.7	5893.4	6536.0	6727.6	6676.3	6398.8	6193.6	5826.7
65°	3415.5	3434.6	3696.6	4467.2	5495.2	6466.9	7044.1	7025.0	6689.0	6485.1	6029.7
67.5°	2494.2	2452.9	2728.1	3517.7	4652.4	6064.6	7271.1	7295.2	6912.8	6545.0	5813.5
68°	2276.3	2288.5	2502.9	3283.0	4431.8	5922.5	7286.1	7322.9	6935.1	6506.0	5695.5
70°	1356.8	1380.4	1571.6	2260.4	3371.5	5118.3	7124.4	7208.4	6802.5	6103.2	4926.3
72.5°	346.5	374.6	555.3	1011.7	1925.7	3606.3	6014.2	6156.3	5906.1	4951.2	3325.6
75°	142.6	149.8	198.4	333.3	717.4	1624.7	3964.1	4268.3	4094.4	2964.2	1503.0
77.5°	98.5	103.5	127.6	184.8	310.6	550.8	1943.4	2163.2	1948.9	1011.7	327.8
80°	70.8	74.9	91.3	123.1	178.5	196.6	633.4	732.4	581.7	222.0	81.3
82.5°	42.2	45.4	68.1	87.6	108.5	94.0	157.6	178.9	168.5	110.3	36.3
85°	20.9	24.5	45.9	62.7	58.6	39.5	48.1	53.6	66.3	67.2	19.5
87.5°	1.4	2.7	26.8	37.7	16.3	9.1	14.1	17.3	23.6	33.1	8.2
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°	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1144.3	1144.7	1141.5	1140.2	1141.1	1135.6	1133.4	1134.3	1134.3	1135.6	1133.4
5°	1155.6	1155.6	1150.2	1142.9	1138.8	1128.4	1121.6	1119.7	1118.4	1117.5	1115.7
7.5°	1180.1	1177.4	1167.9	1152.0	1138.4	1115.7	1098.4	1089.3	1084.8	1083.0	1081.6
10°	1219.6	1214.6	1198.8	1169.2	1137.9	1097.5	1059.8	1033.0	1010.8	1001.7	996.2
12.5°	1272.8	1265.5	1238.7	1189.7	1134.7	1060.3	978.5	900.0	826.9	796.9	781.9
15°	1334.1	1323.6	1281.4	1206.9	1116.1	976.3	798.7	661.1	559.9	521.7	505.4
17.5°	1396.3	1382.7	1318.6	1217.8	1060.3	802.3	560.3	423.2	355.5	337.4	331.0
20°	1458.9	1439.0	1350.9	1209.7	934.0	578.5	369.6	309.2	289.7	284.3	282.4
22.5°	1518.4	1487.5	1379.9	1177.9	739.7	388.2	292.4	273.4	267.0	263.8	262.9
25°	1570.2	1527.1	1405.4	1079.8	523.5	293.3	263.4	257.0	248.8	242.9	243.4
27.5°	1618.8	1566.6	1420.8	918.1	349.2	250.6	243.8	235.2	220.2	211.6	211.6
30°	1677.4	1619.2	1432.2	706.5	257.0	221.6	216.1	203.0	182.5	171.2	171.2
32.5°	1765.4	1699.1	1424.9	495.8	213.0	194.8	182.1	163.9	141.7	130.8	130.3
35°	1900.3	1822.7	1373.1	325.1	188.0	169.4	148.9	126.7	107.2	98.1	97.6
37.5°	2081.9	1987.9	1256.9	232.5	168.5	145.8	121.2	96.7	82.2	76.3	75.8
40°	2317.6	2180.0	1090.7	188.4	150.3	123.1	93.5	74.9	64.9	60.4	60.8
42.5°	2600.5	2385.7	891.3	162.6	132.6	101.3	73.1	59.0	52.7	49.5	48.6
45°	2914.7	2588.7	682.5	144.8	114.9	81.7	57.2	46.8	41.8	40.0	40.0
47.5°	3260.3	2786.2	499.5	129.4	95.8	63.1	45.9	38.1	34.1	32.7	32.2
50°	3574.0	2923.3	360.1	113.1	78.6	49.9	37.2	31.8	29.1	27.2	27.2
52.5°	3835.6	2966.5	265.2	95.4	63.6	40.0	30.9	27.2	24.5	23.2	23.2
55°	4065.8	2948.8	197.1	78.6	51.3	32.7	26.3	23.2	20.9	19.5	19.5
57.5°	4286.5	2891.5	147.1	64.0	41.3	26.3	22.2	19.5	17.3	16.3	16.3
60°	4466.7	2796.2	109.4	51.8	33.1	21.3	18.6	15.9	14.1	12.7	12.7
62.5°	4612.9	2690.8	80.4	42.7	26.3	16.8	14.5	13.2	10.4	9.1	9.1
65°	4613.9	2516.0	60.4	35.4	20.4	13.2	10.9	10.4	6.8	5.4	5.0
67.5°	4280.1	2169.1	46.3	30.4	15.9	10.0	8.2	8.6	3.6	2.3	1.8
68°	4158.9	2081.0	43.6	30.0	15.0	9.5	7.7	8.6	3.2	1.8	1.4
70°	3506.4	1655.6	35.0	29.1	13.2	7.3	6.4	8.6	2.7	1.4	0.9
72.5°	2242.7	960.8	25.9	23.2	10.0	5.4	4.1	7.7	2.7	0.9	0.5
75°	954.5	297.9	17.7	16.3	5.9	4.1	2.7	5.0	1.8	0.5	0.0
77.5°	201.2	67.2	10.4	10.0	4.1	2.7	1.8	1.4	0.5	0.0	0.0
80°	51.8	19.5	5.4	5.0	2.3	1.4	0.9	0.0	0.0	0.0	0.0
82.5°	16.3	7.7	3.2	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	1.4	0.5	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)