

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P387042

Luminaire Tested: GAW-SA2D-730-U-T3-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387042
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-730-U-T3-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA 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: 10746 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

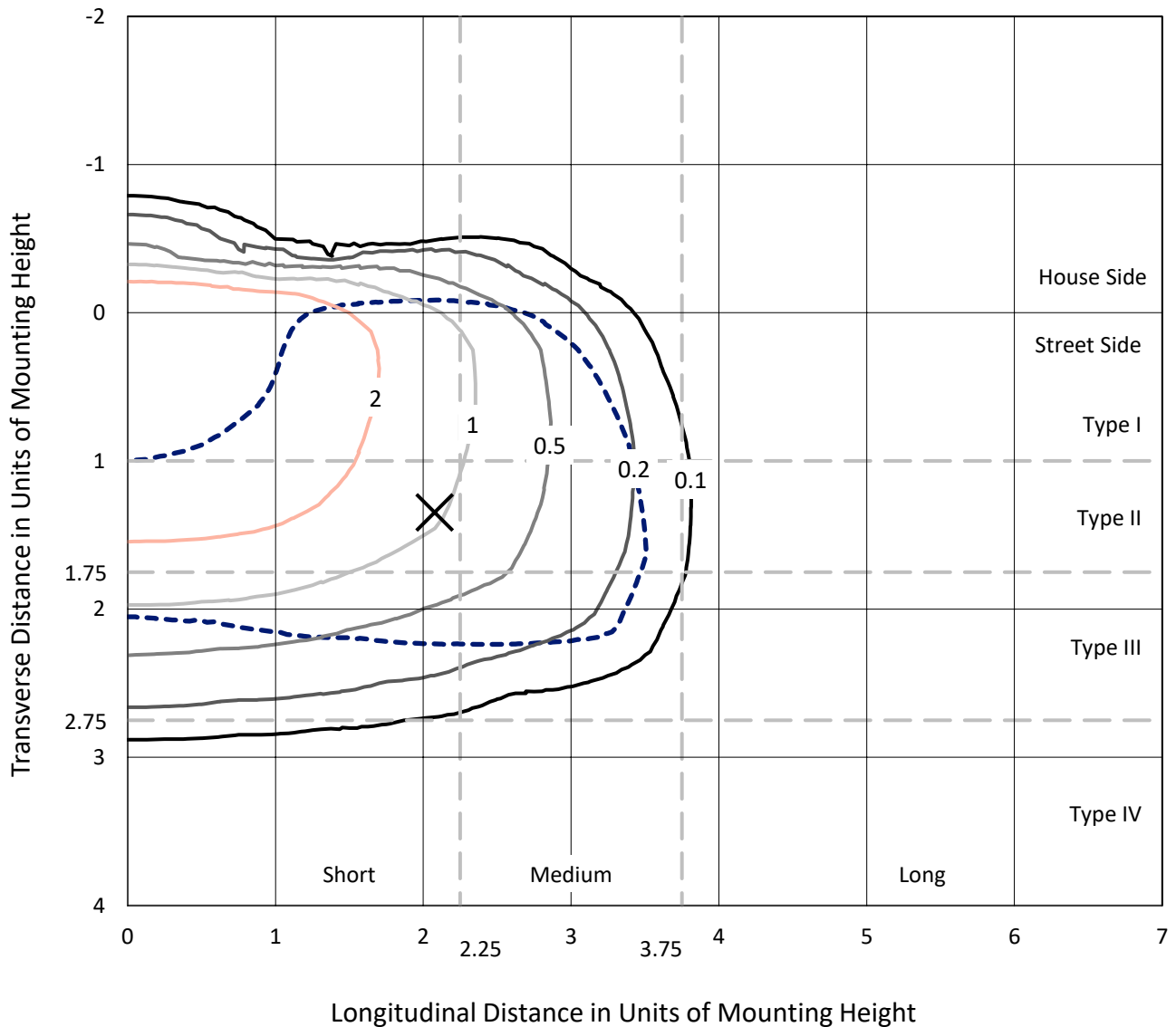
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P387042
 CATALOG NUMBER: GAW-SA2D-730-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

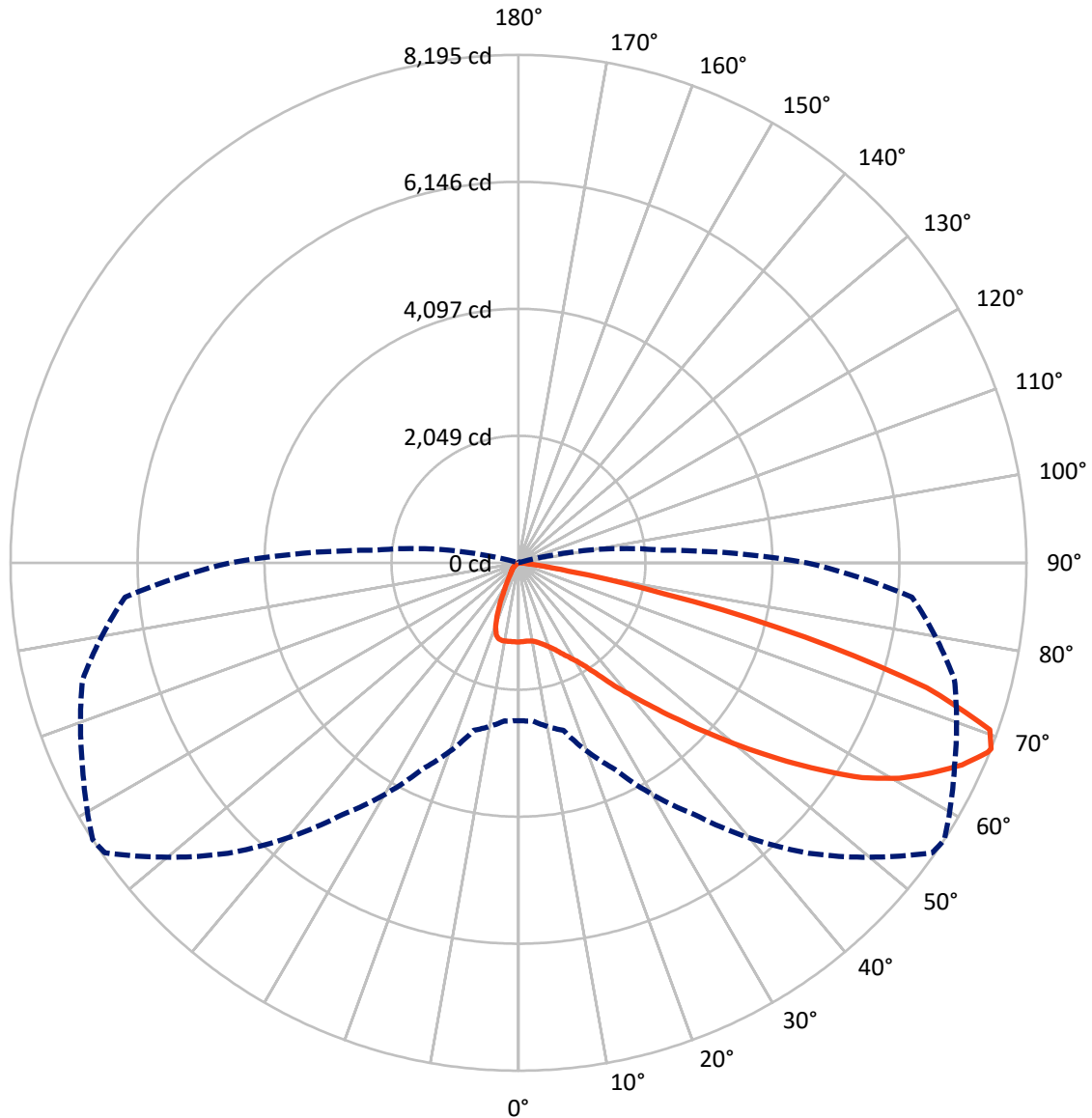
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

REPORT NUMBER: P387042
CATALOG NUMBER: GAW-SA2D-730-U-T3-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GAW-SA2D-730-U-T3-HSS

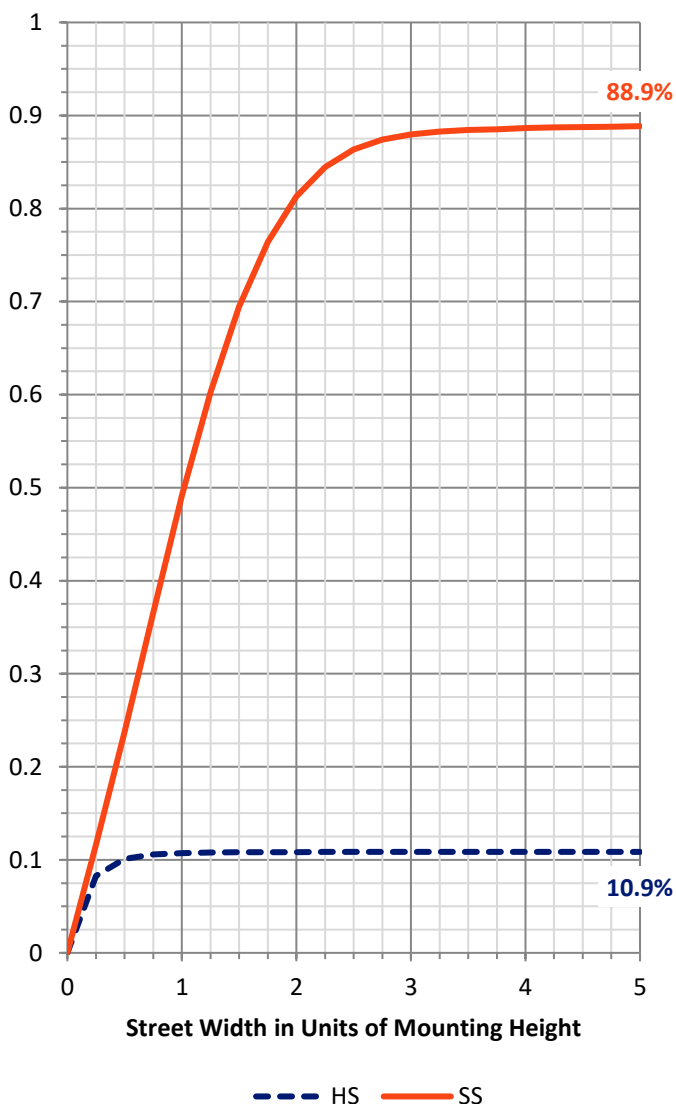
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.4	0.0	1178.4
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	9567.6	0.0	9567.6
	% Fixture	89.0	0.0	89.0
Total	Lumens	10746.0	0.0	10746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.5	1.1
10°-20°	331.1	3.1
20°-30°	571.3	5.3
30°-40°	986.0	9.2
40°-50°	1686.5	15.7
50°-60°	2698.2	25.1
60°-70°	3117.5	29.0
70°-80°	1191.2	11.1
80°-90°	44.7	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°	10746.0	100.0
0°-180°	10746.0	100.0

Coefficient of Utilization



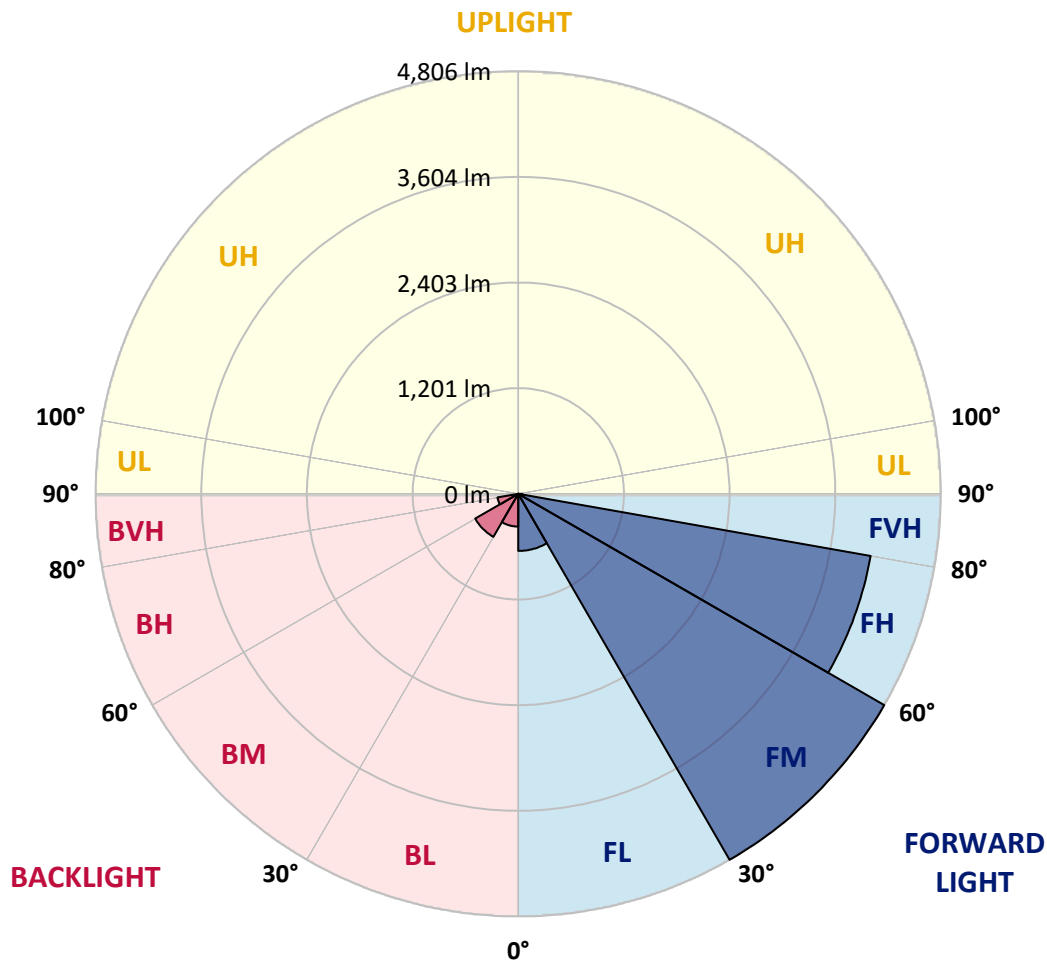
REPORT NUMBER: P387042
 CATALOG NUMBER: GAW-SA2D-730-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.5	6.0			
FM (30°-60°)	4805.5	44.7			
FH (60°-80°)	4068.8	37.9			G2/5000
FVH (80°-90°)	43.8	0.4			G1/100
BL (0°-30°)	372.4	3.5	B1/500		
BM (30°-60°)	565.2	5.3	B1/1000		
BH (60°-80°)	240.0	2.2	B1/500		G1/500
BVH (80°-90°)	0.8	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





REPORT NUMBER: P387042

CATALOG NUMBER: GAW-SA2D-730-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1246.9	1252.5	1256.6	1259.1	1262.2	1268.8	1270.8	1273.9	1275.4	1275.4	1278.9
5°	1197.6	1203.7	1212.4	1219.5	1233.7	1252.0	1265.2	1270.3	1279.4	1287.6	1292.2
7.5°	1151.9	1159.0	1169.2	1186.0	1210.3	1239.8	1267.3	1274.4	1292.2	1309.4	1318.1
10°	1122.4	1128.0	1141.2	1165.1	1197.1	1238.3	1276.9	1285.5	1316.0	1345.0	1361.3
12.5°	1112.3	1117.4	1131.1	1158.0	1197.6	1245.9	1299.3	1312.0	1356.7	1398.9	1421.7
15°	1127.0	1128.0	1142.8	1168.2	1207.3	1264.7	1336.4	1351.6	1408.0	1462.9	1491.3
17.5°	1183.9	1179.3	1187.0	1198.1	1229.1	1289.6	1375.5	1398.3	1473.6	1538.1	1565.0
20°	1326.2	1326.2	1308.9	1278.4	1278.9	1328.2	1428.3	1454.2	1546.2	1620.9	1645.3
22.5°	1569.6	1565.0	1530.5	1455.8	1387.2	1394.8	1492.9	1526.4	1633.6	1713.4	1721.5
25°	1862.3	1856.7	1803.3	1698.1	1579.2	1502.5	1580.3	1618.9	1737.8	1808.4	1791.6
27.5°	2172.2	2167.6	2114.8	1984.2	1815.0	1674.3	1684.4	1721.0	1844.0	1913.6	1860.2
30°	2472.5	2474.0	2421.7	2287.6	2096.0	1893.3	1816.5	1837.9	1947.1	2017.7	1941.5
32.5°	2758.1	2760.1	2714.9	2565.0	2386.1	2147.8	1999.5	1993.9	2067.0	2136.6	2049.3
35°	3012.6	3017.7	2986.7	2870.4	2680.8	2431.4	2236.7	2223.5	2237.3	2316.0	2214.4
37.5°	3258.1	3261.1	3237.7	3139.7	2981.1	2742.8	2536.5	2517.7	2488.3	2548.7	2432.4
40°	3526.9	3519.2	3492.3	3403.4	3267.2	3086.8	2858.7	2826.2	2774.8	2828.7	2719.0
42.5°	3776.9	3768.2	3772.8	3672.2	3557.4	3440.5	3234.2	3178.3	3148.3	3210.3	3070.6
45°	4089.4	4084.8	4100.0	4012.6	3919.6	3834.8	3664.6	3603.6	3590.4	3663.0	3495.9
47.5°	4397.8	4409.0	4456.2	4419.1	4381.5	4306.8	4120.4	4092.9	4101.0	4188.9	3944.5
50°	4654.9	4668.1	4797.7	4840.4	4894.7	4851.0	4664.0	4647.3	4679.3	4758.6	4427.3
52.5°	4840.9	4867.8	5028.9	5225.5	5423.7	5453.2	5266.7	5251.4	5294.6	5306.8	4800.2
55°	4969.9	4993.8	5176.2	5536.0	5939.4	6066.5	5950.6	5891.7	5883.5	5763.1	5192.5
57.5°	4992.8	4990.3	5252.4	5736.7	6343.9	6671.6	6598.5	6540.5	6373.9	6184.8	5642.2
60°	4863.7	4878.5	5182.8	5806.3	6598.0	7129.4	7135.0	7059.8	6800.2	6594.9	6078.1
62.5°	4466.4	4526.3	4833.8	5623.9	6594.9	7313.9	7528.3	7470.9	7160.4	6930.8	6520.2
65°	3822.1	3843.4	4136.6	4998.9	6149.3	7236.7	7882.5	7861.1	7485.1	7257.0	6747.3
67.5°	2791.1	2744.9	3052.8	3936.4	5206.2	6786.5	8136.5	8163.5	7735.6	7324.1	6505.5
68°	2547.2	2560.9	2800.8	3673.7	4959.3	6627.4	8153.3	8194.5	7760.5	7280.4	6373.4
70°	1518.3	1544.7	1758.6	2529.4	3772.8	5727.5	7972.4	8066.4	7612.2	6829.7	5512.6
72.5°	387.7	419.2	621.4	1132.1	2154.9	4035.5	6730.1	6889.1	6609.1	5540.6	3721.5
75°	159.5	167.7	222.0	373.0	802.8	1818.1	4435.9	4776.3	4581.7	3317.0	1681.9
77.5°	110.3	115.9	142.8	206.8	347.6	616.4	2174.8	2420.7	2180.9	1132.1	366.9
80°	79.3	83.8	102.1	137.7	199.7	220.0	708.8	819.6	650.9	248.5	91.0
82.5°	47.3	50.8	76.2	98.1	121.4	105.2	176.3	200.2	188.5	123.5	40.6
85°	23.4	27.4	51.3	70.1	65.5	44.2	53.9	60.0	74.2	75.2	21.8
87.5°	1.5	3.0	30.0	42.2	18.3	10.2	15.8	19.3	26.4	37.1	9.1
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: P387042
 CATALOG NUMBER: GAW-SA2D-730-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9	1276.9
2.5°	1280.5	1281.0	1277.4	1275.9	1276.9	1270.8	1268.3	1269.3	1269.3	1270.8	1268.3
5°	1293.2	1293.2	1287.1	1278.9	1274.4	1262.7	1255.1	1253.0	1251.5	1250.5	1248.5
7.5°	1320.6	1317.6	1306.9	1289.1	1273.9	1248.5	1229.1	1219.0	1213.9	1211.9	1210.3
10°	1364.8	1359.2	1341.4	1308.4	1273.4	1228.1	1186.0	1156.0	1131.1	1120.9	1114.8
12.5°	1424.3	1416.1	1386.2	1331.3	1269.8	1186.5	1095.0	1007.1	925.3	891.8	875.0
15°	1492.9	1481.2	1433.9	1350.6	1249.0	1092.5	893.8	739.8	626.5	583.8	565.5
17.5°	1562.5	1547.2	1475.6	1362.8	1186.5	897.8	627.0	473.6	397.9	377.5	370.4
20°	1632.6	1610.2	1511.7	1353.6	1045.2	647.3	413.6	346.0	324.2	318.1	316.1
22.5°	1699.2	1664.6	1544.2	1318.1	827.7	434.4	327.2	305.9	298.8	295.2	294.2
25°	1757.1	1708.8	1572.6	1208.3	585.9	328.2	294.7	287.6	278.5	271.8	272.4
27.5°	1811.5	1753.0	1589.9	1027.4	390.7	280.5	272.9	263.2	246.4	236.8	236.8
30°	1877.0	1812.0	1602.6	790.6	287.6	248.0	241.9	227.1	204.3	191.6	191.6
32.5°	1975.6	1901.4	1594.5	554.9	238.3	218.0	203.8	183.4	158.5	146.3	145.8
35°	2126.5	2039.6	1536.6	363.8	210.4	189.5	166.7	141.8	119.9	109.8	109.2
37.5°	2329.7	2224.6	1406.5	260.2	188.5	163.1	135.7	108.2	92.0	85.4	84.9
40°	2593.4	2439.5	1220.5	210.9	168.2	137.7	104.7	83.8	72.7	67.6	68.1
42.5°	2910.0	2669.7	997.4	181.9	148.4	113.3	81.8	66.1	58.9	55.4	54.4
45°	3261.6	2896.8	763.7	162.1	128.6	91.5	64.0	52.3	46.7	44.7	44.7
47.5°	3648.3	3117.8	558.9	144.8	107.2	70.6	51.3	42.7	38.1	36.6	36.1
50°	3999.4	3271.3	402.9	126.5	87.9	55.9	41.7	35.6	32.5	30.5	30.5
52.5°	4292.1	3319.6	296.7	106.7	71.1	44.7	34.6	30.5	27.4	25.9	25.9
55°	4549.7	3299.7	220.5	87.9	57.4	36.6	29.5	25.9	23.4	21.8	21.8
57.5°	4796.7	3235.7	164.6	71.6	46.2	29.5	24.9	21.8	19.3	18.3	18.3
60°	4998.4	3129.0	122.5	57.9	37.1	23.9	20.8	17.8	15.8	14.2	14.2
62.5°	5162.0	3011.1	89.9	47.8	29.5	18.8	16.3	14.7	11.7	10.2	10.2
65°	5163.0	2815.5	67.6	39.6	22.9	14.7	12.2	11.7	7.6	6.1	5.6
67.5°	4789.5	2427.3	51.8	34.0	17.8	11.2	9.1	9.7	4.1	2.5	2.0
68°	4653.9	2328.7	48.8	33.5	16.8	10.7	8.6	9.7	3.6	2.0	1.5
70°	3923.7	1852.6	39.1	32.5	14.7	8.1	7.1	9.7	3.0	1.5	1.0
72.5°	2509.6	1075.2	29.0	25.9	11.2	6.1	4.6	8.6	3.0	1.0	0.5
75°	1068.1	333.3	19.8	18.3	6.6	4.6	3.0	5.6	2.0	0.5	0.0
77.5°	225.1	75.2	11.7	11.2	4.6	3.0	2.0	1.5	0.5	0.0	0.0
80°	57.9	21.8	6.1	5.6	2.5	1.5	1.0	0.0	0.0	0.0	0.0
82.5°	18.3	8.6	3.6	2.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.1	5.1	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.5	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)