

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: P323016

Luminaire Tested: **GAN-SA2D-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8458 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

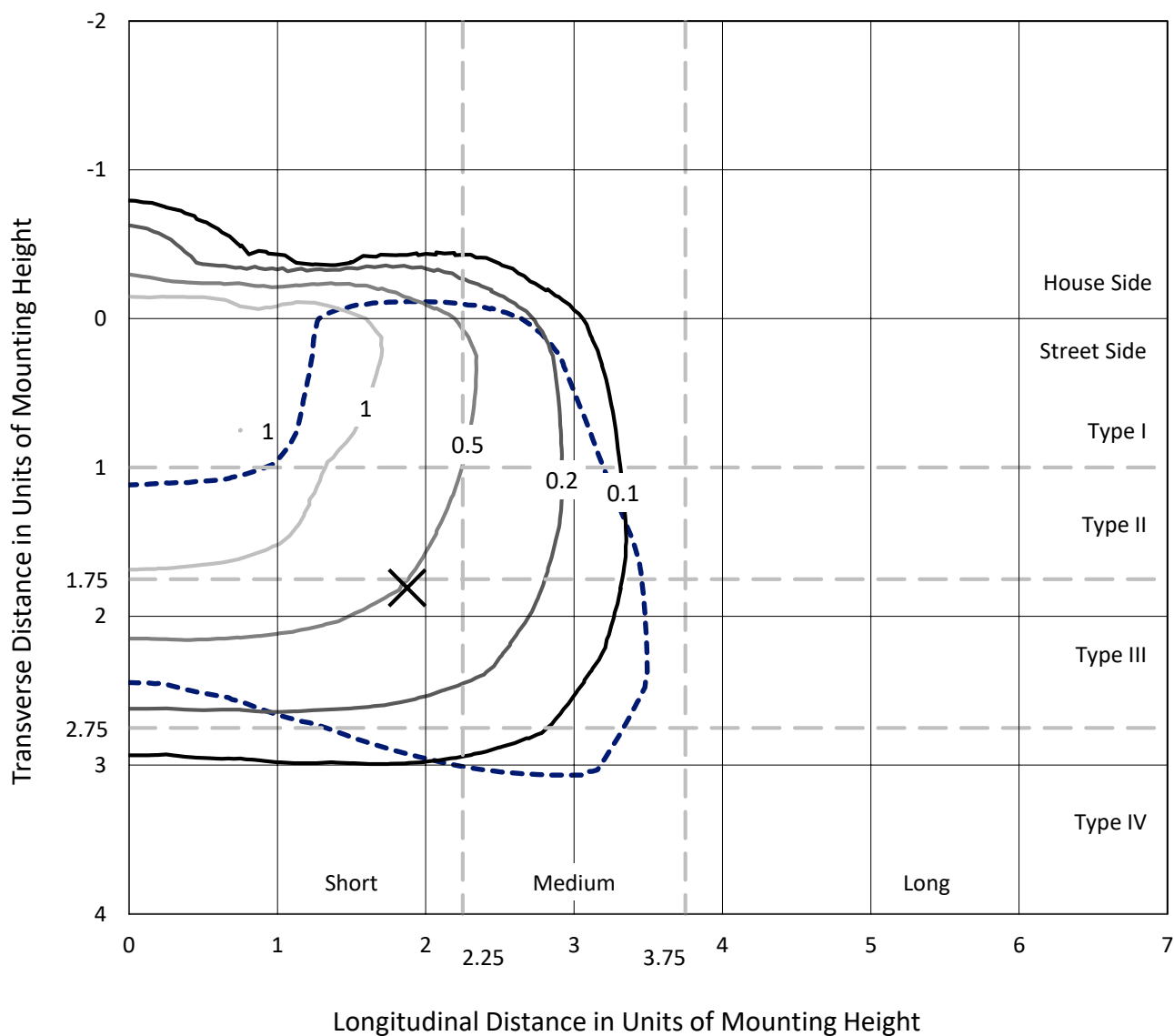
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P323016
 CATALOG NUMBER: GAN-SA2D-827-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

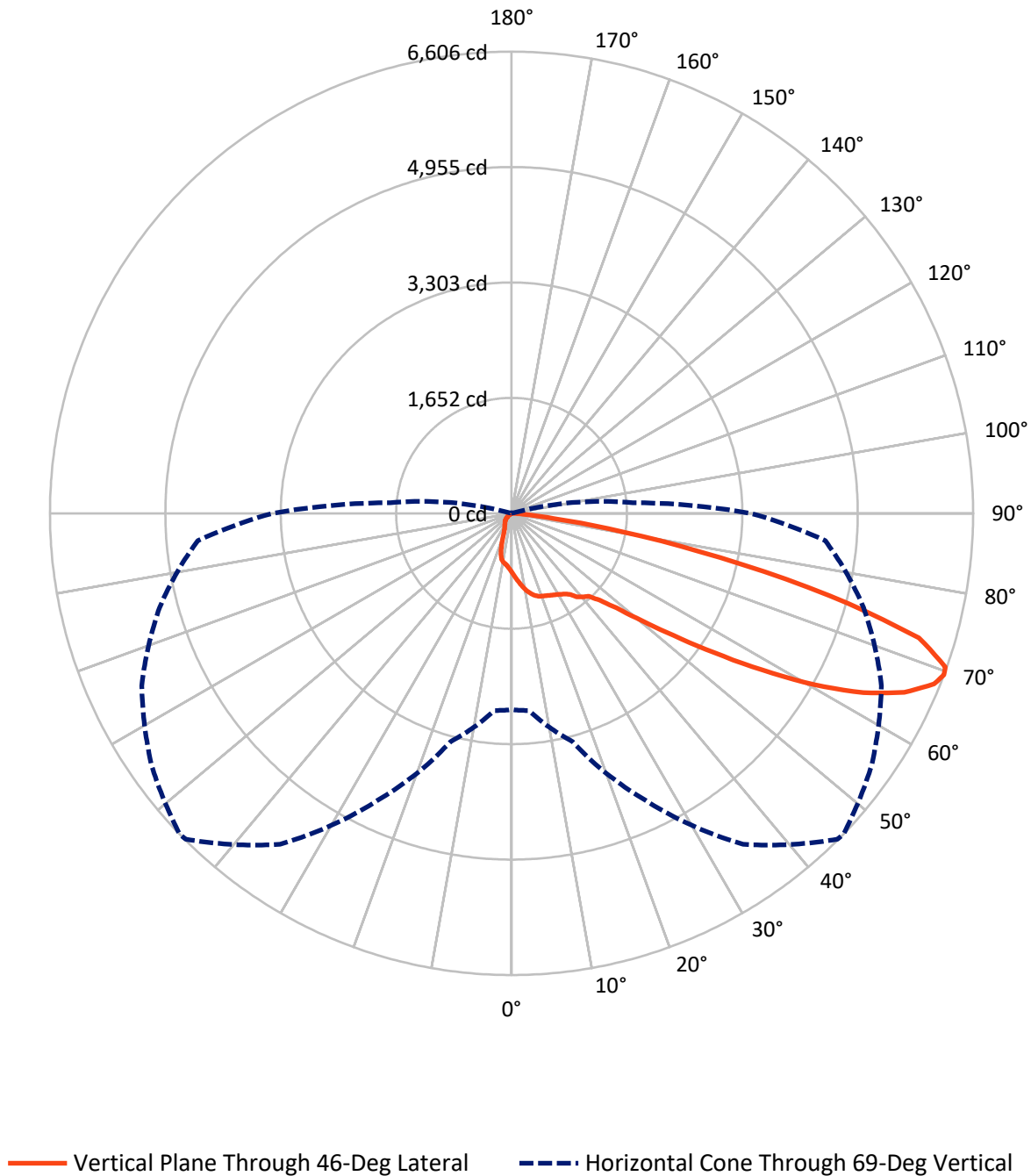
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type IV - Short - N/A

REPORT NUMBER: P323016
CATALOG NUMBER: GAN-SA2D-827-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P323016

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	868.0	0.0	868.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	7590.0	0.0	7590.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	8458.0	0.0	8458.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.4	1.0
10°-20°	255.9	3.0
20°-30°	402.5	4.8
30°-40°	577.1	6.8
40°-50°	997.5	11.8
50°-60°	1970.6	23.3
60°-70°	2754.1	32.6
70°-80°	1330.5	15.7
80°-90°	85.5	1.0
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°	8458.0	100.0
0°-180°	8458.0	100.0

Coefficient of Utilization



REPORT NUMBER: P323016

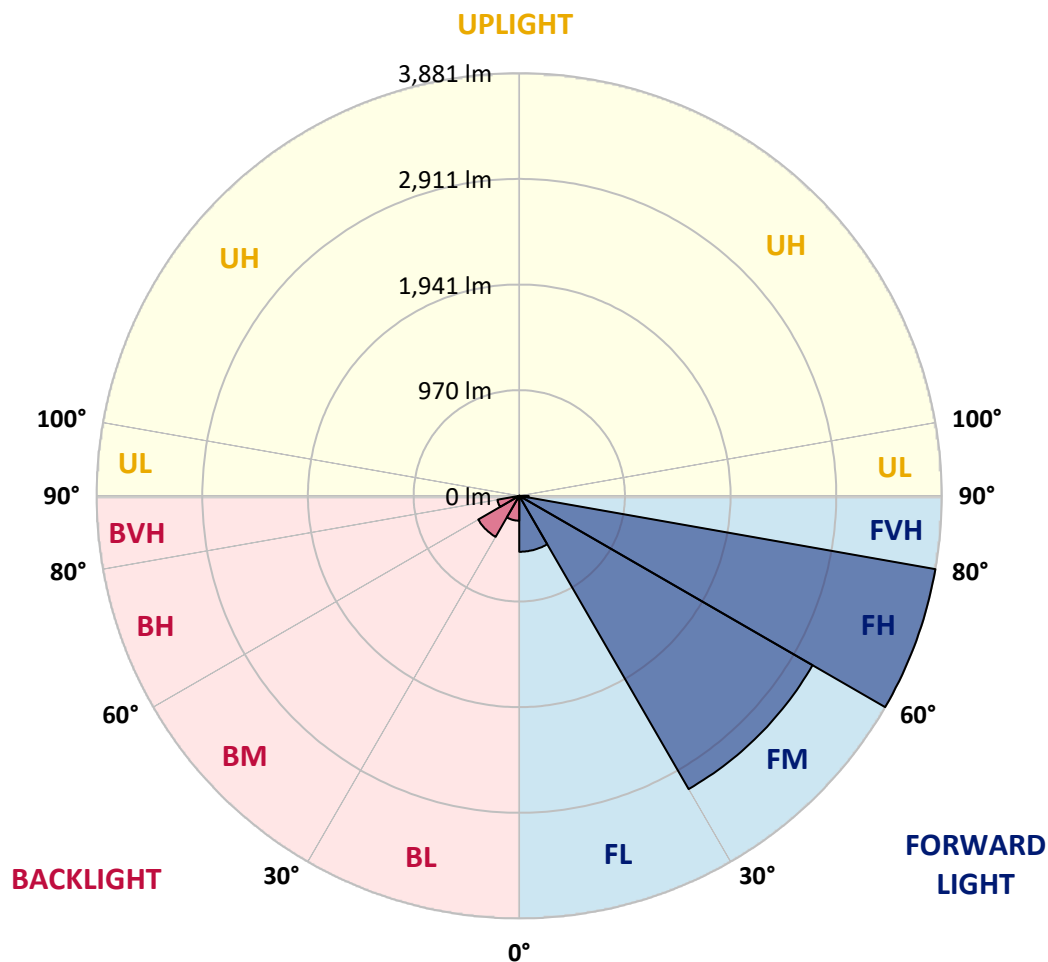
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.9	6.1			
FM	(30°-60°)	3110.2	36.8			
FH	(60°-80°)	3881.1	45.9			G2/5000
FVH	(80°-90°)	84.8	1.0			G1/100
BL	(0°-30°)	228.8	2.7	B1/500		
BM	(30°-60°)	435.0	5.1	B1/1000		
BH	(60°-80°)	203.5	2.4	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 IV Short





REPORT NUMBER: P323016

CATALOG NUMBER: GAN-SA2D-827-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5
2.5°	941.4	940.3	934.7	932.3	918.8	910.9	907.7	897.8	883.5	869.3	853.4
5°	1048.5	1048.1	1037.8	1027.9	1002.5	978.7	974.4	951.4	919.2	889.1	859.0
7.5°	1158.0	1152.8	1142.5	1123.5	1086.6	1048.5	1044.9	1012.4	966.8	923.2	880.0
10°	1250.8	1247.6	1234.1	1205.2	1161.9	1118.7	1114.3	1074.3	1022.7	969.2	914.1
12.5°	1322.9	1320.6	1302.7	1266.6	1220.6	1175.8	1169.9	1134.2	1079.1	1019.2	954.1
15°	1367.0	1365.8	1344.0	1305.5	1260.3	1221.4	1216.3	1184.9	1133.8	1071.1	997.8
17.5°	1377.3	1377.7	1355.1	1316.2	1278.9	1251.2	1247.2	1223.4	1180.6	1118.3	1041.4
20°	1354.3	1359.0	1338.8	1305.1	1282.1	1267.4	1264.3	1250.0	1213.9	1155.2	1076.3
22.5°	1321.8	1324.1	1310.3	1287.6	1278.1	1280.9	1279.3	1271.4	1240.9	1186.9	1110.8
25°	1301.9	1301.9	1293.6	1274.6	1280.9	1298.0	1298.4	1296.8	1272.6	1225.8	1152.8
27.5°	1301.1	1298.8	1289.2	1275.0	1292.4	1318.6	1320.2	1330.9	1315.8	1273.0	1205.2
30°	1332.9	1330.1	1309.9	1291.2	1313.4	1341.6	1345.5	1368.9	1361.4	1324.1	1263.5
32.5°	1407.0	1397.1	1352.3	1321.8	1338.4	1372.1	1377.3	1414.5	1426.4	1387.2	1319.8
35°	1508.5	1477.2	1412.6	1379.7	1381.2	1416.5	1421.3	1476.0	1511.3	1445.1	1363.4
37.5°	1648.5	1633.1	1528.0	1439.9	1447.1	1500.6	1514.5	1574.0	1564.1	1476.8	1413.0
40°	1955.5	1931.3	1819.4	1608.9	1510.1	1568.8	1573.2	1604.9	1605.7	1548.6	1516.1
42.5°	2373.4	2363.5	2245.7	1915.4	1634.2	1614.4	1622.3	1675.9	1735.8	1700.1	1698.5
45°	2836.2	2831.1	2706.2	2322.3	1885.3	1763.9	1773.8	1845.6	1960.2	1968.2	2018.5
47.5°	3208.6	3206.2	3134.5	2776.4	2269.5	2017.3	2020.5	2096.6	2298.1	2397.6	2478.1
50°	3548.1	3559.6	3502.9	3267.7	2793.0	2414.3	2406.8	2457.5	2781.1	2944.1	3044.0
52.5°	4020.0	4036.2	3877.2	3726.1	3342.3	2906.8	2900.9	2954.0	3361.7	3483.8	3501.7
55°	4436.8	4409.0	4283.3	4239.7	4012.1	3515.2	3513.6	3560.4	3923.2	3975.2	4008.1
57.5°	4620.8	4610.1	4670.7	4770.7	4713.6	4234.1	4230.6	4194.9	4425.7	4431.2	4532.3
60°	4737.0	4750.1	4936.0	5244.2	5386.5	5007.8	4984.8	4767.1	4905.5	4893.2	5001.5
62.5°	4649.7	4675.5	5010.2	5523.8	5890.2	5683.2	5650.7	5291.4	5315.6	5273.1	5373.9
65°	4186.5	4226.6	4775.0	5471.0	6140.0	6211.0	6178.1	5754.2	5641.1	5571.3	5515.4
67.5°	3399.4	3423.2	3995.8	5012.2	6027.4	6525.9	6519.1	6159.8	5887.0	5521.0	5087.1
69°	2809.3	2832.7	3383.9	4529.2	5779.5	6593.3	6606.4	6289.9	5840.2	5214.8	4507.4
70°	2379.4	2404.4	2917.9	4115.2	5492.0	6562.0	6585.4	6277.6	5706.2	4860.3	3998.6
72.5°	1248.0	1269.4	1796.4	2835.0	4477.2	6025.4	6096.4	5747.0	4836.9	3529.8	2364.3
75°	392.2	404.5	701.5	1482.0	3065.4	4685.0	4701.3	4508.2	3434.7	1941.6	984.7
77.5°	149.5	145.9	233.6	546.1	1549.8	2950.0	3049.6	2817.2	1802.4	686.5	227.2
80°	80.5	80.9	121.3	226.0	663.1	1516.1	1600.1	1365.4	640.5	214.1	52.3
82.5°	34.9	36.5	68.2	119.8	304.6	559.2	601.2	500.5	244.7	144.0	19.4
85°	7.5	8.3	32.9	65.0	124.1	157.0	164.6	162.2	155.9	111.8	7.5
87.5°	0.0	0.0	14.7	23.4	31.3	35.7	31.3	40.8	86.1	75.3	4.0
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: P323016

CATALOG NUMBER: GAN-SA2D-827-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5	847.5
2.5°	848.3	841.1	828.8	815.3	805.8	795.9	788.0	784.4	780.4	777.7	781.2
5°	846.7	832.8	809.0	786.0	769.3	755.9	744.7	740.4	736.0	732.9	732.5
7.5°	860.5	841.1	804.6	770.9	745.1	726.9	711.8	705.5	700.3	698.0	696.0
10°	887.1	862.1	813.4	769.3	736.0	705.1	672.6	647.6	631.3	623.8	621.0
12.5°	921.6	890.3	830.0	777.7	729.3	669.8	600.8	541.3	502.8	490.2	482.6
15°	962.1	923.2	851.8	788.4	704.7	596.0	479.1	401.3	365.6	358.5	350.6
17.5°	1000.9	958.1	878.0	790.4	650.8	476.3	351.0	298.2	284.3	289.1	290.3
20°	1035.0	992.6	903.8	772.9	552.8	357.3	271.6	258.6	263.7	272.8	274.4
22.5°	1069.5	1025.9	927.6	726.9	427.5	271.3	244.7	247.9	253.0	262.1	263.7
25°	1111.6	1066.4	949.8	642.4	320.8	230.8	232.4	237.1	242.3	250.6	251.4
27.5°	1160.0	1117.5	964.4	532.6	237.9	212.2	217.3	224.5	229.6	237.5	239.1
30°	1224.2	1184.9	969.2	418.8	199.5	195.5	197.9	206.6	214.1	221.3	222.5
32.5°	1284.5	1251.6	953.3	316.1	184.8	180.0	180.0	185.2	193.9	200.7	202.2
35°	1340.0	1318.6	902.6	231.2	173.7	165.8	161.8	161.8	167.4	172.9	174.5
37.5°	1413.4	1412.6	820.5	184.4	163.0	153.9	145.5	139.2	137.2	138.4	139.2
40°	1539.1	1540.3	713.4	165.4	153.9	141.6	128.9	117.4	106.7	103.1	102.7
42.5°	1735.4	1717.5	601.2	156.2	145.9	128.9	109.8	94.4	77.7	72.6	72.2
45°	2047.1	1941.2	482.2	147.9	137.6	114.6	90.8	69.8	56.3	52.3	52.3
47.5°	2501.1	2235.0	373.6	138.8	126.5	98.3	68.6	50.4	41.2	39.3	39.7
50°	2970.7	2522.9	286.3	127.3	113.0	81.3	50.8	36.5	31.3	31.3	31.7
52.5°	3387.1	2733.9	223.3	115.0	96.4	63.8	38.5	28.6	26.2	25.8	26.2
55°	3776.9	2869.9	170.9	100.7	76.5	47.6	29.3	23.4	21.8	21.0	20.6
57.5°	4152.8	2937.4	128.1	81.3	55.5	34.5	23.4	19.8	18.2	17.1	16.7
60°	4403.1	2882.6	88.0	59.9	38.5	25.0	19.4	17.1	15.1	13.9	13.5
62.5°	4544.2	2733.1	56.7	43.2	27.4	18.6	15.5	14.3	11.5	10.3	10.3
65°	4487.1	2486.5	39.7	30.9	19.8	13.9	11.5	11.5	8.3	6.7	6.3
67.5°	3976.4	2100.6	30.1	23.0	14.3	10.3	8.7	9.9	5.2	3.2	3.2
69°	3421.2	1740.9	25.8	19.0	11.9	8.3	7.5	9.1	3.6	2.4	2.0
70°	2973.4	1501.8	23.4	16.7	9.9	7.1	6.7	8.7	3.6	2.0	1.6
72.5°	1779.0	837.5	17.8	11.9	6.3	5.6	5.6	9.9	3.6	2.0	1.6
75°	719.0	295.0	13.1	8.3	4.8	4.8	6.7	12.7	3.2	1.6	1.2
77.5°	163.0	64.6	7.5	5.2	3.2	4.8	7.9	9.9	2.0	0.8	0.0
80°	39.7	15.9	4.8	3.2	2.0	3.6	5.9	5.6	0.4	0.0	0.0
82.5°	13.1	5.6	2.0	1.6	0.4	1.2	2.8	1.6	0.0	0.0	0.0
85°	5.6	3.2	0.8	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.6	1.2	0.0	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)