

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: P268317

Luminaire Tested: **GAN-AF-02-LED-U-T4W-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-T4W-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10507.7 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

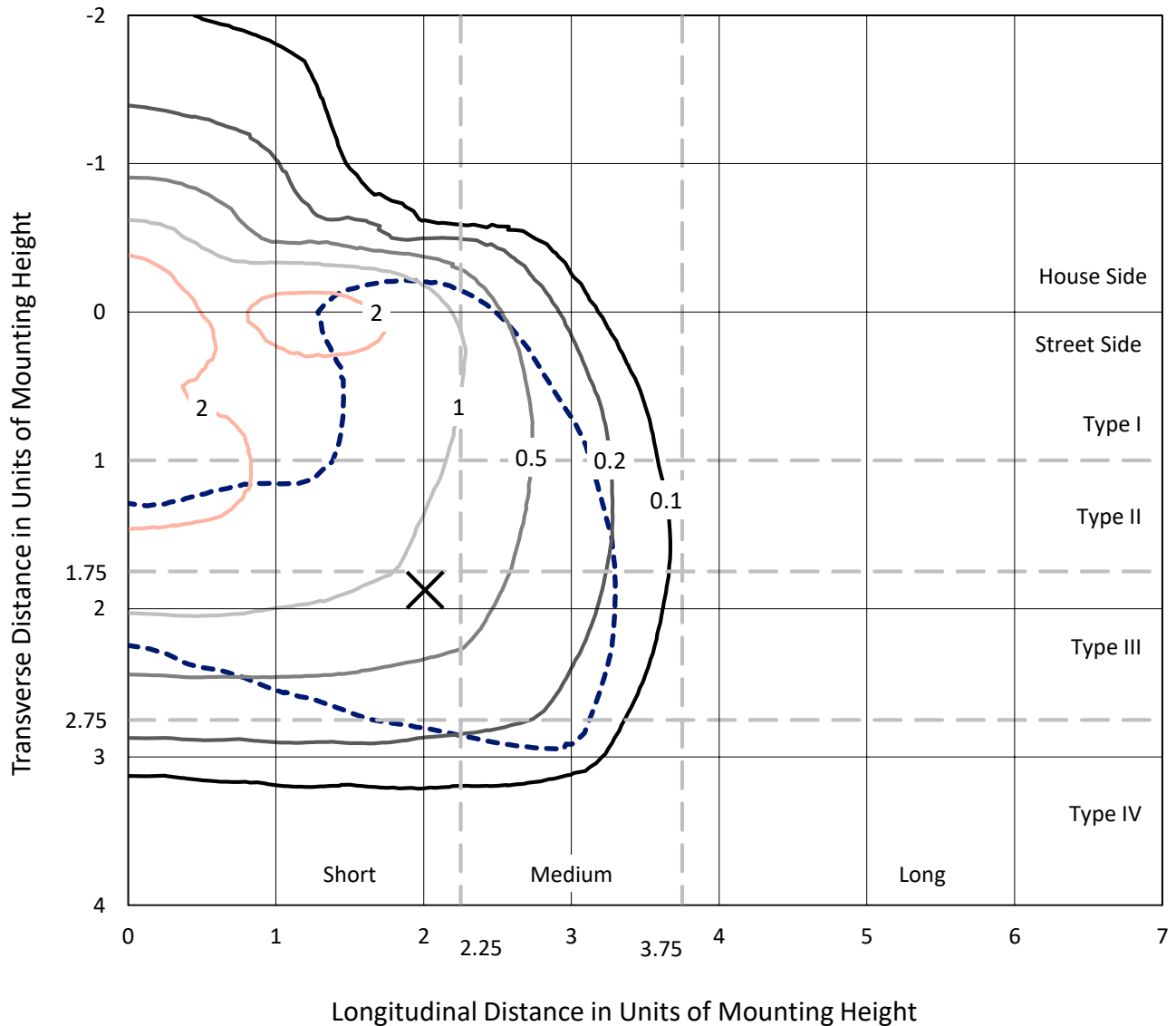
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

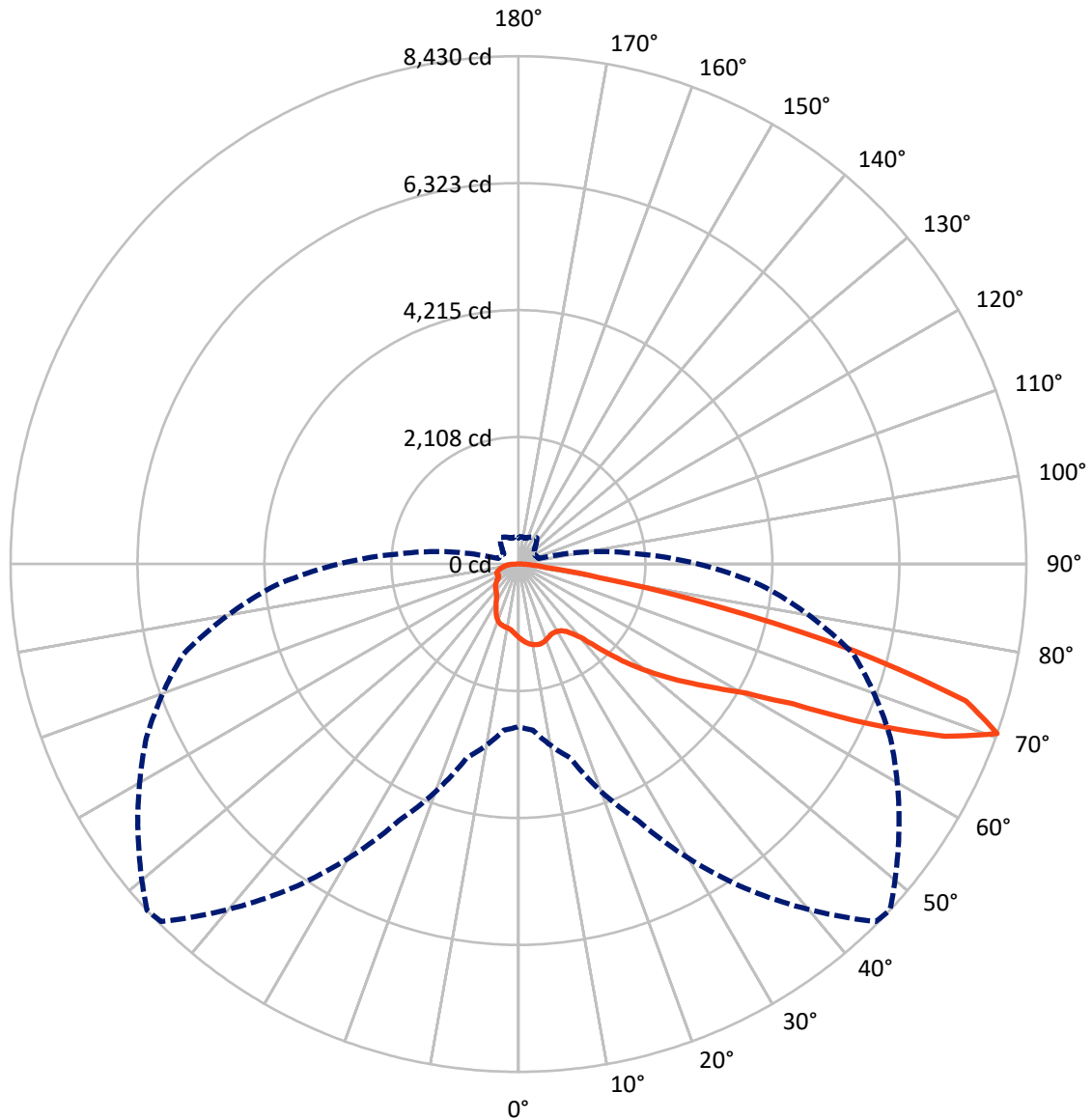
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2192.1	0.0	2192.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8315.6	0.0	8315.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	10507.7	0.0	10507.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.1
10°-20°	342.7	3.3
20°-30°	506.1	4.8
30°-40°	735.6	7.0
40°-50°	1323.9	12.6
50°-60°	2293.5	21.8
60°-70°	3273.4	31.2
70°-80°	1680.4	16.0
80°-90°	235.3	2.2
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°	10507.7	100.0
0°-180°	10507.7	100.0

Coefficient of Utilization



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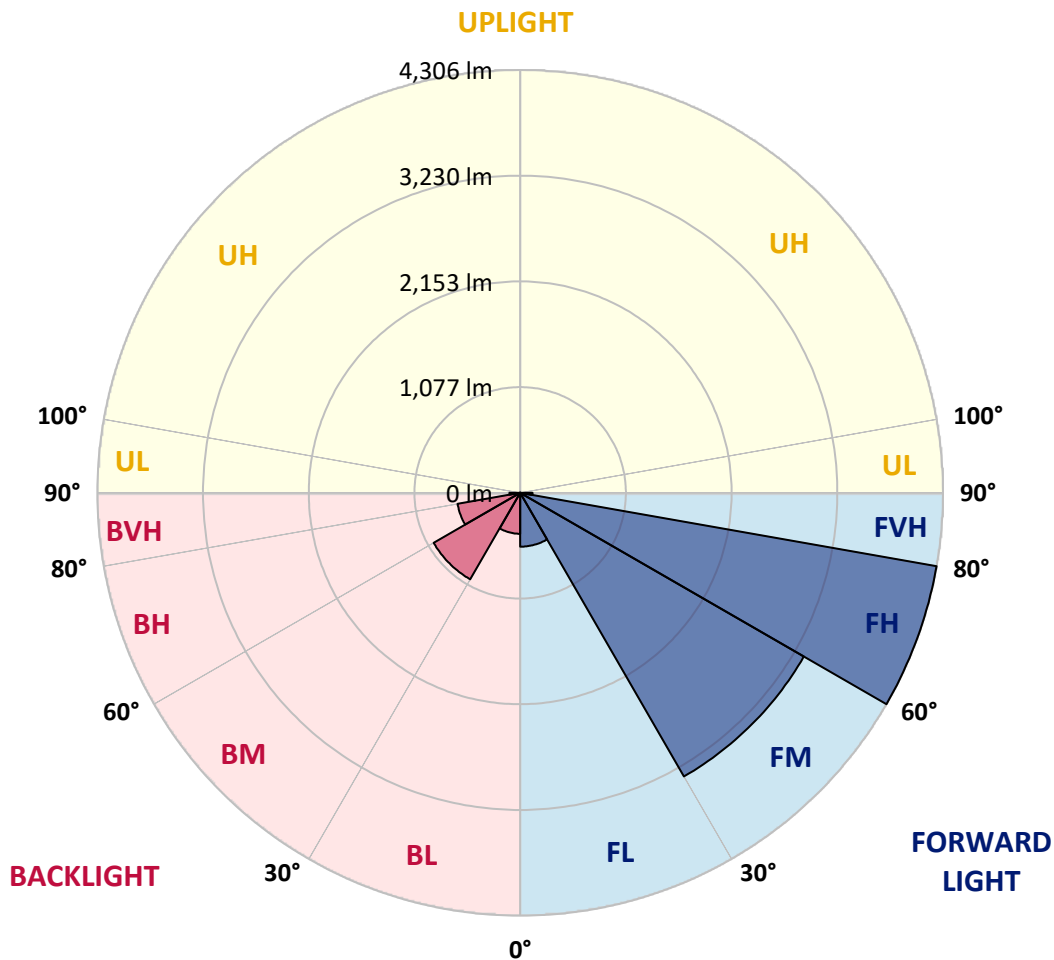
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	548.3	5.2			
FM	(30°-60°)	3335.4	31.7			
FH	(60°-80°)	4306.4	41.0			G2/5000
FVH	(80°-90°)	125.5	1.2			G2/225
BL	(0°-30°)	417.4	4.0	B1/500		
BM	(30°-60°)	1017.5	9.7	B2/2500		
BH	(60°-80°)	647.5	6.2	B2/1000		G2/1000
BVH	(80°-90°)	109.7	1.0			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1290.8	1288.2	1287.2	1285.1	1282.6	1269.8	1267.2	1258.0	1245.3	1232.0	1218.2
5°	1375.7	1375.1	1369.6	1359.2	1343.0	1314.8	1308.2	1285.7	1255.6	1226.4	1197.3
7.5°	1450.4	1445.7	1435.0	1414.6	1385.8	1347.5	1338.4	1307.2	1265.7	1225.8	1186.5
10°	1505.0	1502.4	1478.9	1450.9	1413.6	1371.1	1360.4	1325.5	1280.1	1229.4	1180.4
12.5°	1536.2	1531.0	1503.9	1470.3	1425.8	1384.4	1373.6	1338.4	1287.2	1229.4	1171.7
15°	1534.1	1530.5	1503.5	1466.7	1421.7	1385.4	1375.7	1340.5	1285.7	1224.3	1160.4
17.5°	1493.3	1494.8	1471.8	1435.4	1398.7	1371.1	1362.4	1329.6	1275.5	1214.1	1147.1
20°	1421.7	1428.8	1413.6	1381.2	1360.8	1341.9	1336.3	1308.7	1259.7	1199.2	1132.9
22.5°	1350.2	1356.7	1350.6	1323.6	1320.5	1309.2	1306.1	1286.3	1245.8	1190.1	1124.1
25°	1297.4	1303.6	1302.5	1279.0	1288.2	1287.7	1285.1	1275.5	1242.7	1190.1	1125.7
27.5°	1283.0	1285.1	1283.0	1261.7	1274.4	1284.7	1282.6	1281.2	1252.0	1204.8	1145.1
30°	1332.1	1329.1	1313.3	1269.8	1281.6	1296.0	1293.9	1294.8	1279.5	1243.8	1188.5
32.5°	1527.9	1514.3	1464.1	1341.9	1310.7	1318.4	1319.4	1336.3	1338.8	1303.6	1256.0
35°	1821.0	1805.6	1740.6	1535.2	1401.3	1374.6	1374.6	1400.2	1415.5	1389.5	1360.8
37.5°	2131.1	2114.3	2079.5	1803.0	1591.3	1472.3	1469.6	1487.7	1509.6	1515.7	1522.8
40°	2484.0	2466.0	2475.8	2103.7	1856.6	1641.6	1605.2	1592.4	1651.8	1691.1	1748.3
42.5°	2869.9	2861.7	2865.4	2438.4	2158.8	1894.5	1843.0	1776.9	1848.5	1918.6	2038.8
45°	3227.3	3234.3	3230.8	2796.9	2495.2	2203.4	2148.6	2020.7	2090.8	2211.0	2406.7
47.5°	3540.1	3510.4	3556.5	3188.4	2871.9	2548.9	2481.4	2310.1	2381.1	2529.4	2860.7
50°	3919.9	3915.8	3848.3	3710.9	3327.4	2896.0	2807.6	2609.1	2719.6	2925.6	3432.8
52.5°	4319.2	4245.0	4183.1	4117.2	3810.5	3251.8	3143.3	2907.3	3117.3	3376.5	4130.0
55°	4400.9	4367.6	4444.5	4555.3	4276.2	3621.3	3495.1	3280.9	3565.2	3891.7	4934.2
57.5°	4575.7	4575.2	4733.8	4931.5	4755.7	4013.4	3886.2	3732.3	4068.8	4482.3	5787.9
60°	4694.0	4727.2	5021.5	5405.6	5226.6	4466.5	4349.4	4253.3	4641.3	5142.2	6583.3
62.5°	4755.7	4800.7	5202.5	5597.7	5892.2	5220.4	5103.5	4964.8	5398.9	5866.1	7048.6
65°	4498.6	4587.0	5174.4	5763.9	6475.0	6442.7	6390.1	6146.7	6346.0	6438.2	6880.3
67.5°	3787.1	3877.5	4561.6	5608.9	6891.1	7621.6	7632.8	7217.3	6928.8	6487.2	5784.7
70°	2698.1	2769.1	3335.0	4702.5	6574.1	8392.0	8430.4	7710.5	6812.8	5753.1	4041.6
72.5°	1281.2	1324.6	1860.3	3060.5	5216.8	7689.0	7763.2	7080.7	5793.0	4259.4	2204.8
75°	470.8	484.0	628.8	1302.1	3025.9	5670.3	5757.6	5075.8	3840.2	2120.4	839.9
77.5°	282.2	291.0	352.8	549.6	1190.1	3241.1	3370.4	2760.5	1678.4	789.3	413.0
80°	197.3	203.5	253.1	342.0	562.2	1235.1	1350.2	1126.7	668.7	499.5	300.7
82.5°	133.4	136.5	178.0	231.0	373.6	441.2	475.9	501.0	450.9	371.7	190.7
85°	87.5	90.5	120.6	152.4	237.7	228.0	233.1	295.0	329.1	252.6	105.8
87.5°	50.0	52.1	72.7	81.2	116.6	96.6	97.6	155.3	210.7	170.1	64.4
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°	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2	1219.2
2.5°	1214.6	1208.0	1193.2	1184.0	1175.3	1173.2	1169.7	1169.1	1168.7	1168.7	1167.1
5°	1187.5	1176.3	1153.2	1140.5	1129.8	1128.7	1128.2	1130.7	1131.9	1132.9	1131.2
7.5°	1170.1	1154.9	1126.1	1107.8	1095.0	1091.9	1097.0	1108.8	1116.5	1119.6	1118.0
10°	1159.4	1140.5	1107.3	1087.3	1076.6	1075.0	1081.6	1095.6	1111.4	1117.5	1117.0
12.5°	1147.1	1125.7	1090.5	1069.4	1063.4	1066.4	1075.0	1087.8	1104.1	1113.9	1114.4
15°	1134.9	1109.9	1073.6	1055.1	1052.5	1056.6	1064.9	1074.6	1087.3	1097.0	1098.1
17.5°	1120.0	1094.0	1057.7	1038.8	1036.7	1038.8	1039.2	1044.4	1052.5	1061.7	1064.3
20°	1104.1	1077.6	1039.8	1020.8	1011.8	1003.4	994.3	995.3	997.8	1007.1	1009.2
22.5°	1093.0	1066.4	1026.0	1000.0	975.4	950.9	932.4	929.8	931.0	938.5	941.2
25°	1094.0	1065.8	1022.5	977.4	923.7	884.4	859.9	855.7	855.2	860.8	864.4
27.5°	1113.9	1085.8	1035.7	954.4	867.6	809.3	783.1	780.1	776.0	777.6	781.6
30°	1158.4	1132.4	1067.9	931.0	806.7	735.6	708.6	705.4	699.8	697.3	700.4
32.5°	1230.9	1209.5	1114.9	908.5	745.9	672.7	645.2	638.4	634.9	631.9	634.5
35°	1351.6	1342.4	1177.8	883.9	692.1	624.2	599.1	588.8	583.8	589.4	593.5
37.5°	1540.8	1546.0	1260.1	845.6	650.7	592.0	571.1	559.3	551.6	556.2	560.8
40°	1808.6	1812.2	1351.1	791.3	615.0	573.1	550.7	539.8	529.1	520.8	520.4
42.5°	2160.3	2124.0	1440.6	732.6	573.6	561.4	536.3	523.0	506.6	484.0	479.5
45°	2577.4	2450.1	1508.6	665.0	527.0	547.0	520.4	502.1	476.5	451.8	449.3
47.5°	3058.0	2800.3	1541.9	595.0	483.6	526.0	501.0	471.8	439.6	427.4	425.8
50°	3645.0	3216.0	1557.7	527.0	445.7	498.4	472.9	438.6	411.6	409.0	407.4
52.5°	4313.0	3716.0	1562.7	471.3	414.6	462.6	449.8	416.6	395.2	397.2	397.2
55°	5012.4	4232.3	1493.3	430.9	385.9	425.8	434.5	407.9	390.0	398.2	401.4
57.5°	5654.4	4689.8	1274.4	399.7	358.9	397.7	428.9	416.2	403.9	437.0	439.1
60°	6147.2	4960.3	951.8	371.7	338.9	388.0	443.8	447.3	450.4	529.6	540.3
62.5°	6250.4	4870.3	654.3	349.7	329.7	396.2	470.8	471.3	467.7	523.0	529.6
65°	5776.6	4301.3	475.9	337.5	322.0	411.1	493.8	483.1	459.6	501.6	489.2
67.5°	4587.6	3240.5	396.2	328.2	310.9	409.9	518.3	493.8	455.0	491.3	471.3
70°	2977.8	1959.5	352.8	320.5	297.5	390.6	532.6	492.8	441.6	457.0	433.5
72.5°	1452.9	876.1	323.6	309.2	283.8	363.5	532.2	483.6	428.0	426.9	414.1
75°	568.4	401.4	297.0	292.4	260.1	332.8	517.9	470.4	411.6	395.2	390.6
77.5°	332.8	286.3	263.3	267.3	232.1	302.1	496.9	447.3	389.1	369.7	364.5
80°	242.4	214.2	224.4	231.0	198.3	271.5	468.7	419.1	364.0	373.6	366.6
82.5°	155.3	138.0	181.9	188.6	165.1	240.2	438.2	389.5	328.7	298.5	291.4
85°	79.2	87.5	135.5	143.6	127.3	197.3	400.7	350.2	288.9	248.4	252.6
87.5°	44.5	59.7	86.3	96.6	90.0	151.9	325.1	288.9	235.6	191.7	168.7
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)