

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: P200672

Luminaire Tested: **GAP-AF-02-LED-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-T3-8030
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10139 lumens
Efficiency: N/A
Efficacy: 89.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

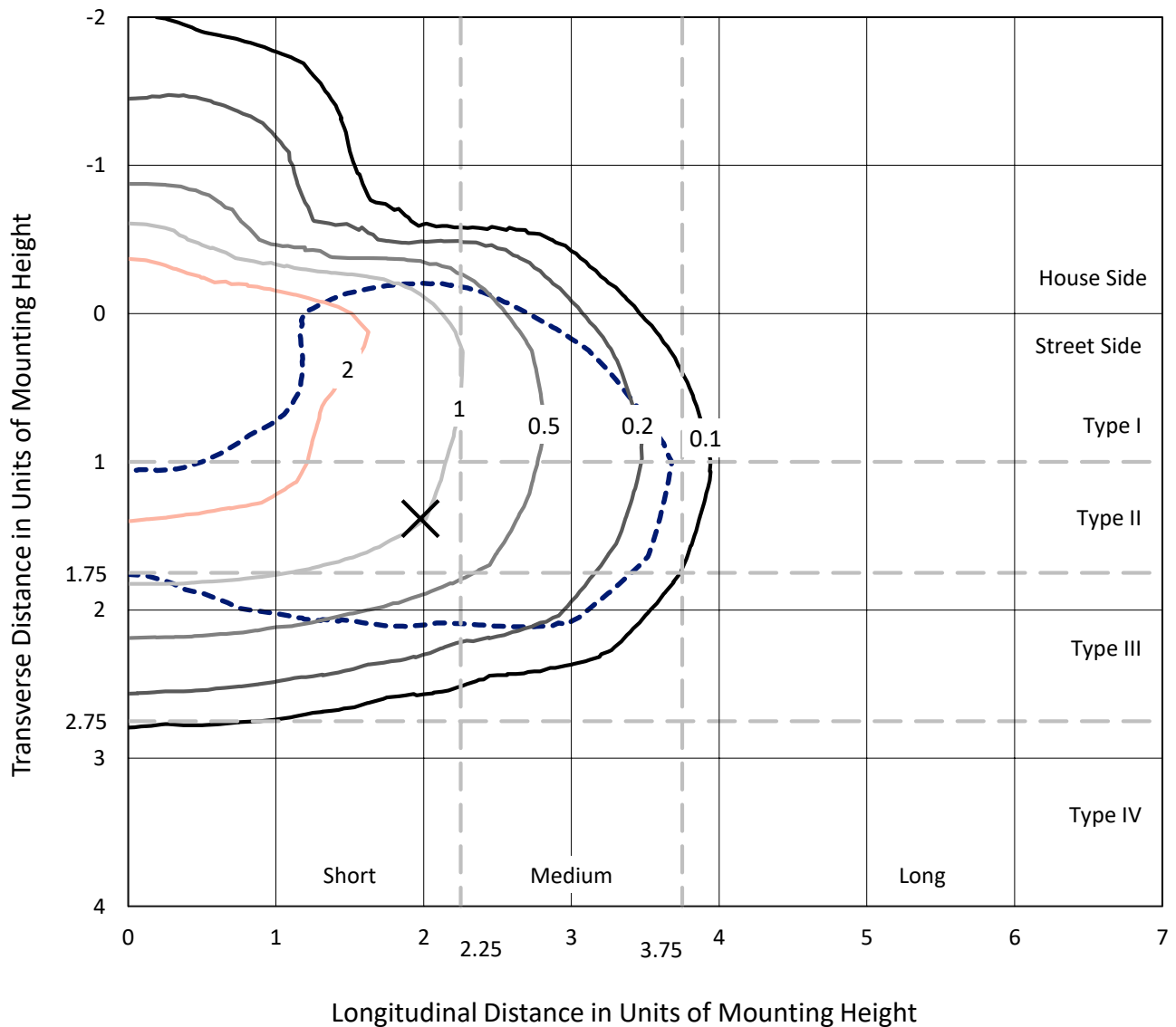
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

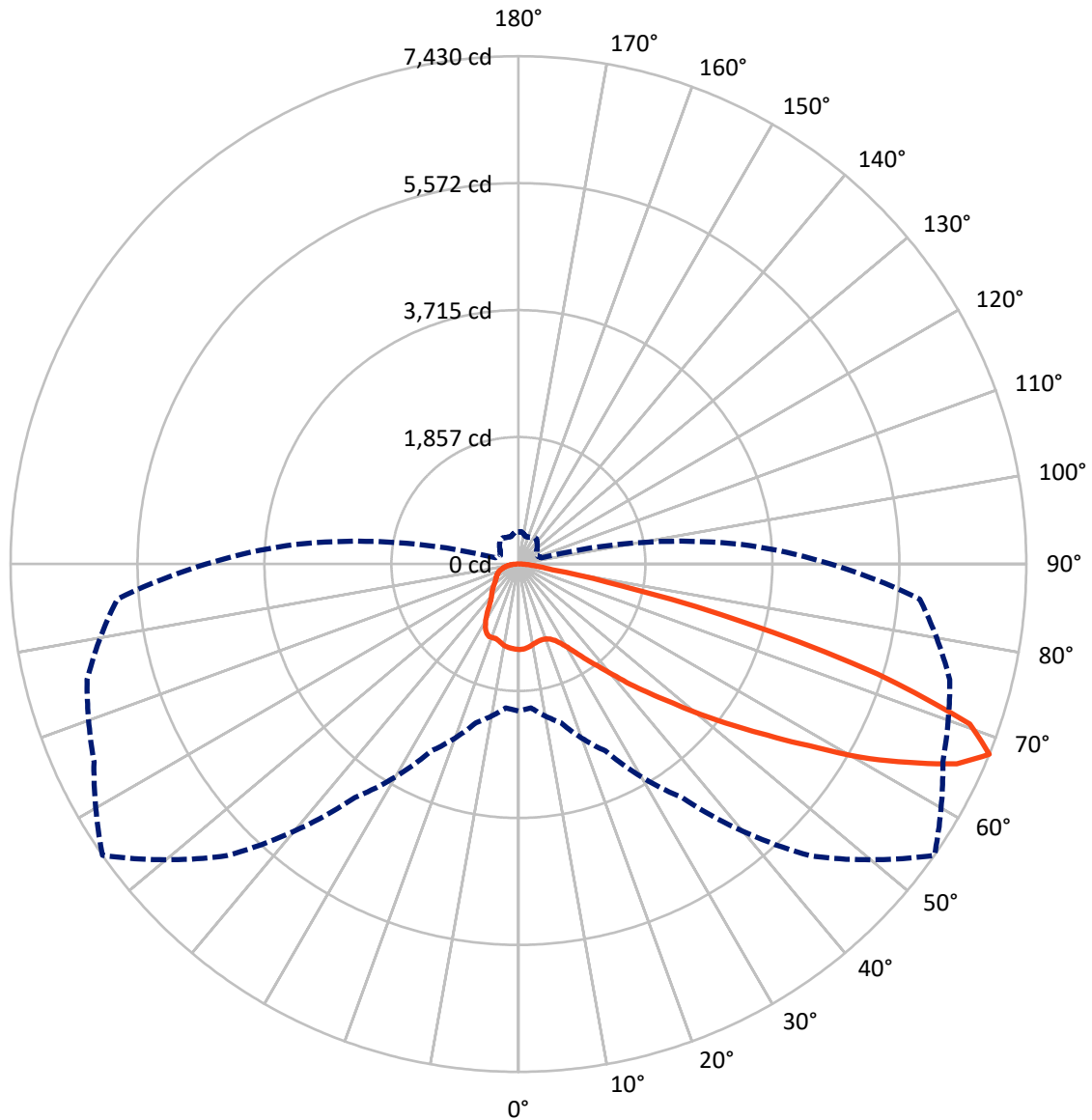
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2190.2	0.0	2190.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	7948.8	0.0	7948.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	10139.0	0.0	10139.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.7	1.2
10°-20°	330.5	3.3
20°-30°	553.6	5.5
30°-40°	910.4	9.0
40°-50°	1532.5	15.1
50°-60°	2412.1	23.8
60°-70°	2878.5	28.4
70°-80°	1236.1	12.2
80°-90°	168.5	1.7
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°	10139.0	100.0
0°-180°	10139.0	100.0



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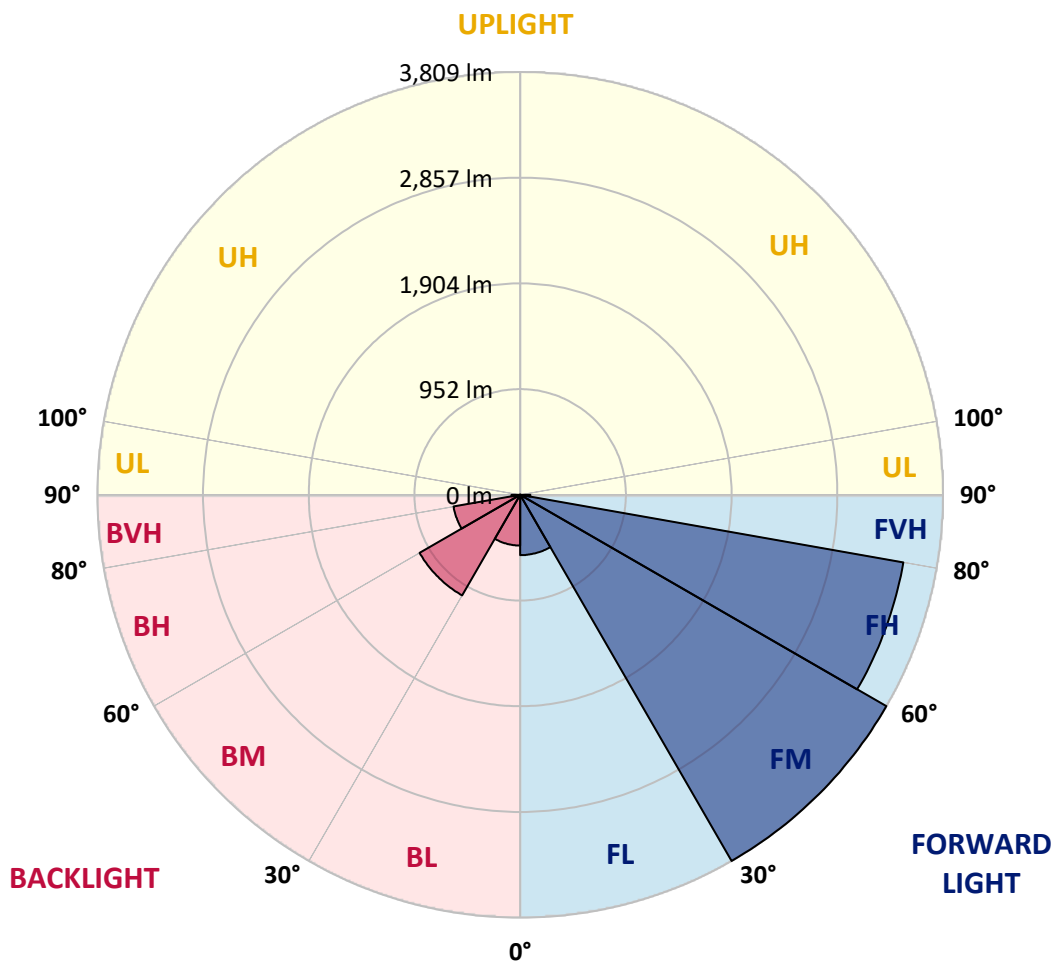
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.5	5.4			
FM	(30°-60°)	3809.0	37.6			
FH	(60°-80°)	3505.1	34.6			G2/5000
FVH	(80°-90°)	91.2	0.9			G1/100
BL	(0°-30°)	457.4	4.5	B1/500		
BM	(30°-60°)	1046.0	10.3	B2/2500		
BH	(60°-80°)	609.5	6.0	B2/1000		G2/1000
BVH	(80°-90°)	77.3	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1239.5	1240.0	1240.9	1244.9	1248.3	1247.3	1247.8	1245.8	1245.4	1242.4	1245.4
5°	1223.8	1225.3	1225.8	1232.1	1236.0	1237.0	1235.6	1233.1	1230.2	1227.2	1228.7
7.5°	1188.1	1192.0	1192.5	1201.3	1207.6	1216.0	1216.5	1216.9	1215.5	1213.5	1216.5
10°	1165.5	1166.5	1166.0	1172.4	1177.3	1186.6	1192.0	1201.3	1205.2	1206.2	1208.1
12.5°	1164.1	1163.1	1161.6	1161.6	1160.1	1164.1	1173.9	1187.1	1196.4	1199.3	1201.8
15°	1179.7	1179.2	1174.3	1167.0	1157.7	1154.8	1163.1	1177.8	1190.0	1196.4	1198.8
17.5°	1215.0	1212.1	1204.2	1187.6	1167.5	1159.7	1160.6	1172.9	1187.1	1195.4	1197.8
20°	1279.6	1279.6	1263.0	1231.6	1195.9	1177.3	1168.5	1175.8	1189.5	1200.8	1204.2
22.5°	1391.3	1392.3	1364.4	1312.9	1252.7	1213.0	1191.0	1189.5	1205.7	1218.4	1222.3
25°	1549.5	1545.5	1506.4	1432.9	1341.3	1275.7	1237.5	1228.7	1242.4	1256.6	1261.5
27.5°	1733.6	1719.4	1672.9	1584.2	1465.7	1369.7	1311.0	1296.8	1310.0	1326.2	1331.1
30°	1915.8	1901.1	1845.7	1748.8	1617.0	1495.6	1411.4	1388.3	1407.0	1430.0	1432.9
32.5°	2098.0	2098.0	2036.2	1923.1	1779.6	1645.9	1545.1	1517.6	1548.5	1576.4	1582.8
35°	2315.9	2316.9	2257.1	2121.0	1966.7	1825.2	1714.0	1693.9	1740.5	1760.0	1775.2
37.5°	2583.8	2589.1	2512.3	2347.7	2178.8	2029.9	1897.7	1870.2	1916.8	1970.1	2019.1
40°	2873.2	2880.0	2795.3	2592.6	2423.6	2267.9	2124.9	2075.4	2152.8	2254.7	2317.8
42.5°	3149.4	3184.6	3102.9	2894.2	2712.5	2551.4	2406.5	2334.5	2431.4	2585.2	2640.1
45°	3548.5	3574.0	3431.5	3242.4	3071.5	2891.3	2699.3	2623.4	2759.1	2953.0	2964.3
47.5°	3814.4	3795.3	3722.8	3605.3	3497.1	3328.6	3039.7	2956.4	3136.6	3364.9	3301.7
50°	3955.9	3961.8	3952.0	3958.9	3962.8	3857.0	3456.9	3342.8	3557.8	3833.5	3688.1
52.5°	4088.2	4049.0	4081.3	4241.9	4435.9	4396.7	3910.9	3791.9	4009.3	4353.6	4096.5
55°	4085.2	4025.5	4130.8	4414.3	4835.0	4880.0	4420.7	4283.6	4486.8	4911.4	4529.4
57.5°	3940.8	3943.7	4105.8	4477.0	5113.1	5334.5	5012.3	4806.6	4993.2	5476.5	4924.6
60°	3741.9	3768.9	4002.5	4466.7	5336.0	5707.2	5738.0	5370.2	5489.2	5990.2	5251.7
62.5°	3421.2	3449.6	3771.8	4360.0	5302.2	6066.1	6394.2	6009.8	6007.9	6301.7	5347.7
65°	2915.3	2907.0	3245.4	3960.8	5018.6	6331.6	7046.1	6562.7	6398.7	6306.6	5154.8
67.5°	2149.9	2112.6	2403.0	3016.7	4171.4	6034.3	7429.5	6850.7	6531.9	5891.8	4565.1
70°	1115.6	1078.4	1313.4	1761.5	2743.4	4709.6	7004.9	6701.8	6237.5	4938.8	3576.4
72.5°	477.0	470.6	566.1	772.8	1327.1	2716.5	5492.7	5800.7	5352.1	3679.7	2458.9
75°	320.8	318.8	354.6	421.2	597.0	1102.4	3437.3	4117.5	3915.8	2281.6	1383.0
77.5°	251.7	249.3	270.3	302.6	386.9	434.9	1525.5	2210.6	2046.0	993.1	605.3
80°	196.9	194.9	208.1	225.8	278.2	274.2	502.0	879.5	680.7	380.5	294.3
82.5°	155.2	155.2	166.0	166.5	197.4	187.1	262.0	387.4	339.9	221.8	180.2
85°	142.0	142.0	153.3	124.4	128.8	118.0	162.6	229.7	215.5	91.1	78.4
87.5°	71.5	69.5	128.8	110.2	70.0	62.7	79.3	111.2	119.5	50.4	39.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2	1250.2
2.5°	1244.4	1243.9	1244.9	1245.4	1249.3	1254.7	1257.1	1260.5	1262.5	1261.5
5°	1229.7	1230.7	1234.6	1237.5	1244.4	1253.2	1258.1	1262.0	1265.4	1264.0
7.5°	1217.4	1219.9	1225.8	1228.2	1232.1	1234.6	1234.1	1235.6	1238.5	1235.1
10°	1210.6	1213.5	1217.9	1214.5	1205.2	1192.0	1179.7	1173.4	1175.3	1172.9
12.5°	1203.7	1207.6	1204.2	1188.1	1162.1	1145.0	1135.7	1136.6	1141.0	1142.0
15°	1199.8	1201.3	1186.6	1156.2	1129.8	1127.3	1132.2	1131.2	1131.7	1131.7
17.5°	1199.8	1195.9	1168.5	1138.1	1126.8	1122.4	1107.3	1088.2	1079.8	1076.9
20°	1206.2	1195.9	1162.6	1142.5	1118.0	1080.3	1040.2	1004.9	989.2	984.8
22.5°	1225.3	1207.6	1179.2	1144.5	1074.9	1011.8	948.1	906.0	877.6	872.7
25°	1264.0	1244.4	1212.1	1118.5	1006.4	916.3	843.8	796.8	768.4	764.4
27.5°	1331.5	1318.8	1229.7	1061.2	915.3	818.8	751.7	715.5	694.4	693.0
30°	1433.4	1427.0	1220.9	976.5	803.1	724.3	692.0	670.9	655.2	654.8
32.5°	1596.0	1544.6	1192.0	873.2	700.8	657.2	644.0	631.2	619.0	619.0
35°	1805.1	1639.6	1137.1	762.5	638.6	620.0	603.3	583.3	567.1	566.1
37.5°	2050.9	1698.3	1038.7	673.4	609.2	595.0	570.5	540.6	512.2	507.3
40°	2299.2	1716.0	900.1	618.5	590.6	570.0	540.2	504.9	477.5	476.0
42.5°	2526.9	1682.2	753.2	580.8	572.0	544.6	513.2	481.9	460.3	459.8
45°	2717.9	1594.5	629.8	545.1	552.4	521.5	493.6	468.2	451.5	448.1
47.5°	2897.7	1470.6	543.1	507.3	532.8	508.8	485.3	461.3	445.2	442.7
50°	3106.3	1336.9	482.4	470.6	515.7	504.4	492.2	467.2	440.3	437.3
52.5°	3359.0	1221.4	434.9	438.3	502.5	510.3	509.8	483.8	436.8	432.9
55°	3641.1	1093.1	399.1	411.9	497.1	521.1	514.2	499.5	439.8	433.9
57.5°	3918.7	943.2	374.1	391.8	489.2	520.1	493.1	472.1	446.6	438.3
60°	4126.9	741.9	355.0	374.1	472.1	503.9	470.1	442.2	445.2	438.8
62.5°	4140.6	573.5	332.0	359.0	446.1	487.8	454.9	429.0	451.5	445.6
65°	3897.2	433.4	310.0	340.8	418.2	477.5	440.3	421.6	464.7	458.4
67.5°	3281.1	348.7	291.4	322.2	390.3	455.9	427.0	414.8	476.5	465.2
70°	2368.8	297.3	273.3	299.7	365.3	431.4	415.3	402.5	444.7	427.0
72.5°	1458.4	257.6	252.7	269.8	346.2	406.0	397.7	379.5	400.6	386.4
75°	728.2	223.3	229.7	240.5	319.3	377.1	368.3	350.1	353.1	350.1
77.5°	348.7	191.0	202.7	211.1	284.5	344.3	335.0	316.4	312.9	313.4
80°	220.9	159.6	170.9	176.8	254.2	306.1	296.8	278.2	317.3	294.3
82.5°	138.1	129.8	132.7	143.5	221.4	266.4	254.2	237.5	286.0	226.2
85°	76.4	90.6	94.5	103.8	170.4	222.8	210.6	189.5	169.9	167.0
87.5°	45.5	53.9	55.3	62.2	114.6	161.1	142.5	135.2	112.1	111.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)