

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: P193719

Luminaire Tested: **GAN-AF-01-LED-U-SL3-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193719
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL3-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5579 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

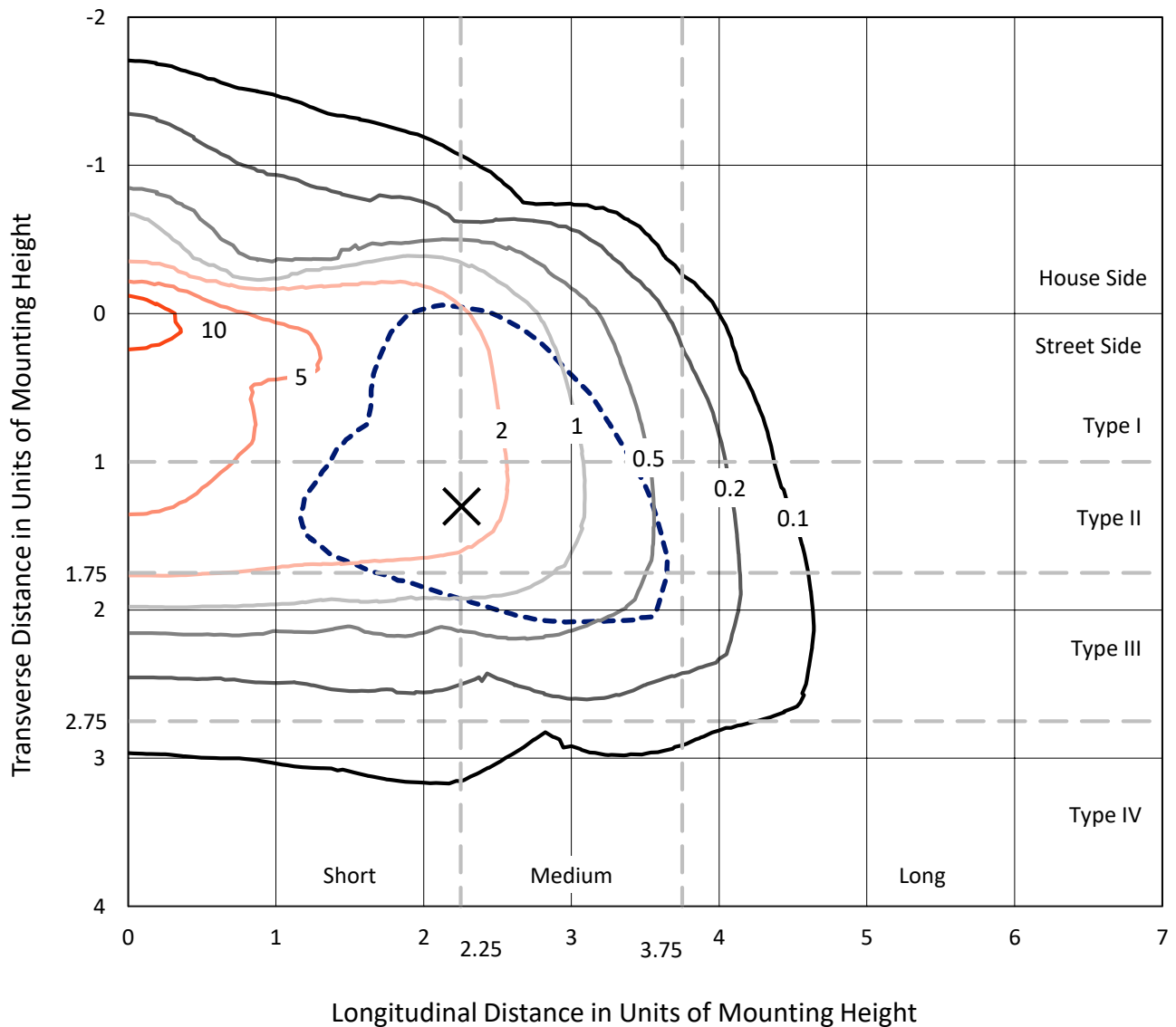


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

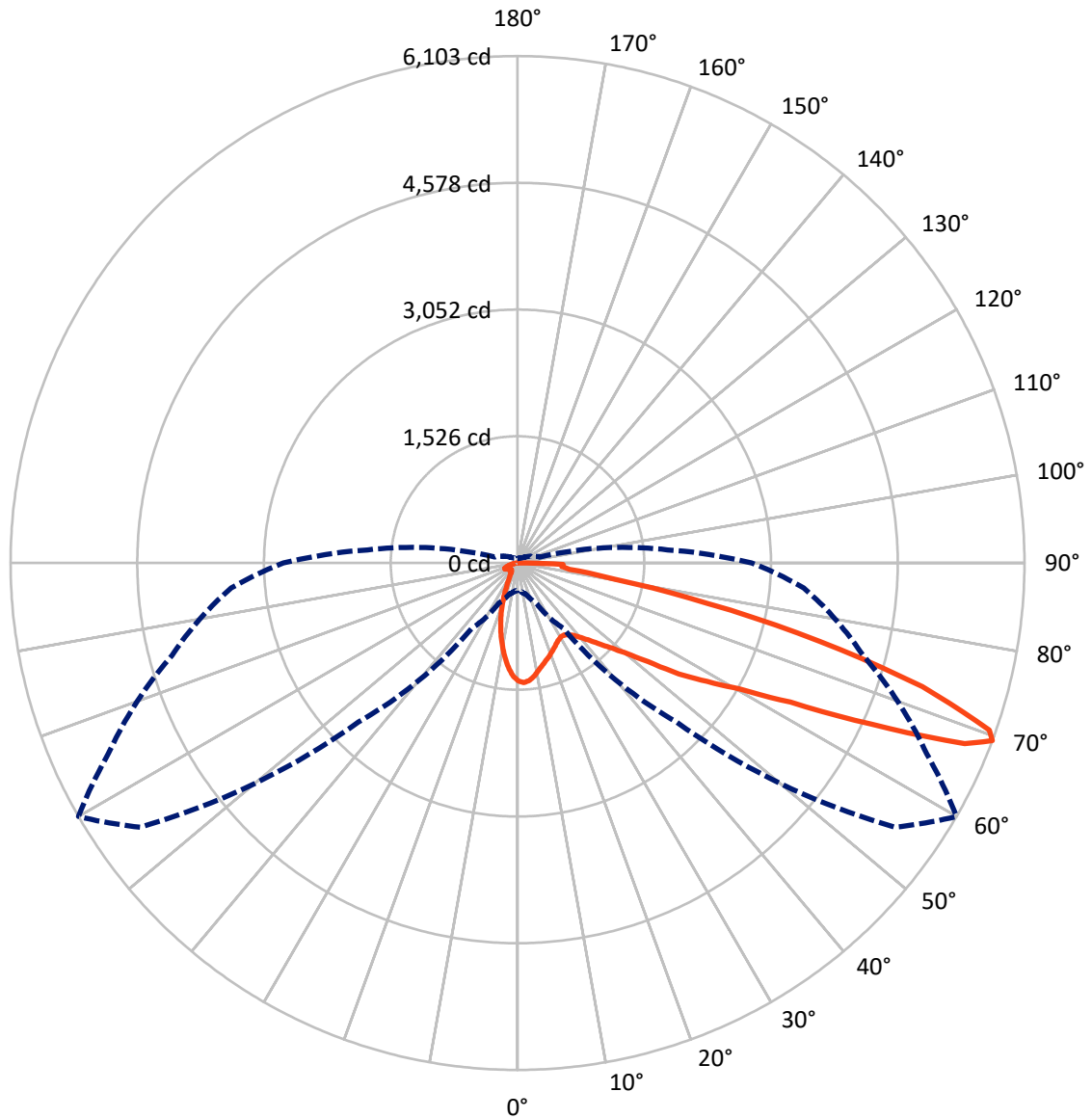


Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	793.7	0.0	793.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	4785.3	0.0	4785.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	5579.0	0.0	5579.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.2	2.2
10°-20°	256.1	4.6
20°-30°	326.3	5.8
30°-40°	448.6	8.0
40°-50°	727.9	13.0
50°-60°	1167.4	20.9
60°-70°	1553.7	27.8
70°-80°	838.9	15.0
80°-90°	140.0	2.5
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°	5579.0	100.0
0°-180°	5579.0	100.0

Coefficient of Utilization



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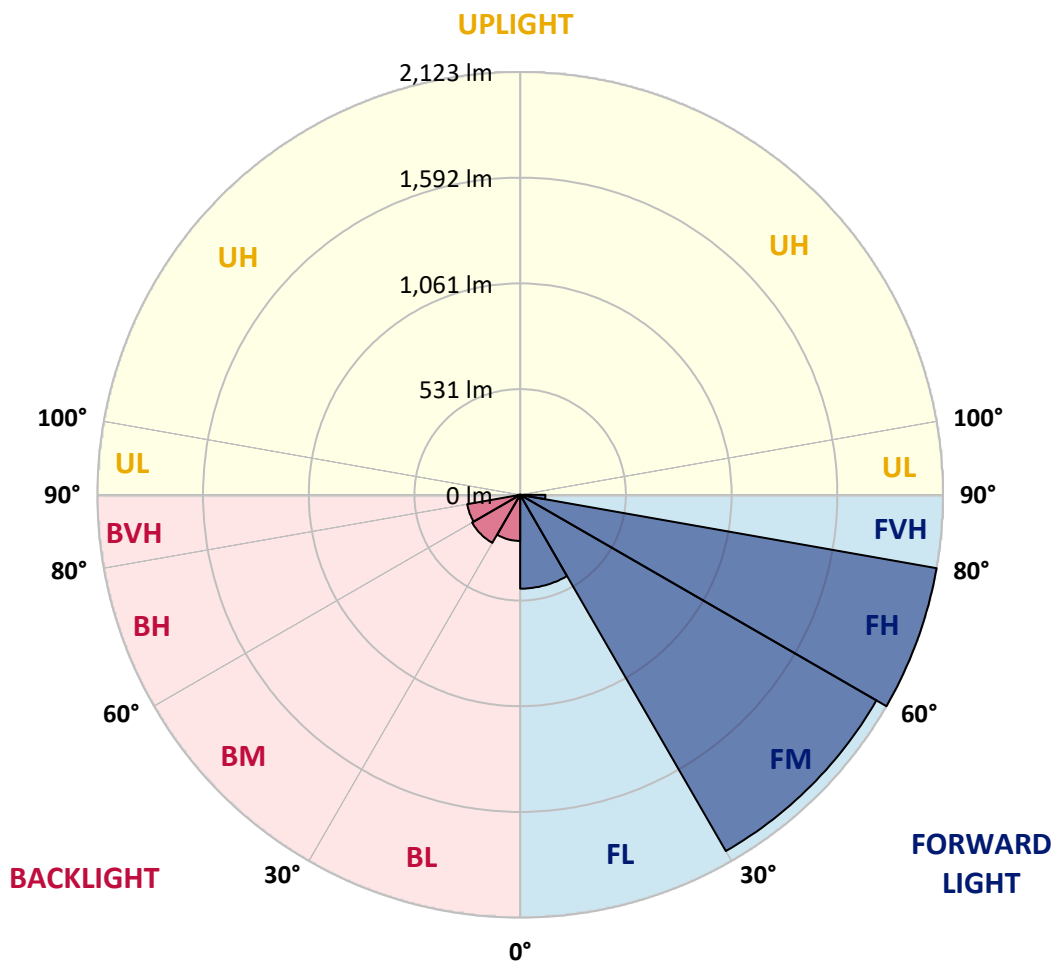
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.1	8.4			
FM	(30°-60°)	2065.0	37.0			
FH	(60°-80°)	2122.7	38.0			G2/5000
FVH	(80°-90°)	126.5	2.3			G2/225
BL	(0°-30°)	231.6	4.2	B1/500		
BM	(30°-60°)	278.8	5.0	B1/1000		
BH	(60°-80°)	269.8	4.8	B1/500		G1/500
BVH	(80°-90°)	13.5	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6
2.5°	1450.7	1454.0	1452.6	1451.8	1454.2	1450.5	1442.6	1440.2	1436.4	1427.5	1412.5
5°	1396.3	1406.0	1405.4	1412.7	1424.8	1428.1	1424.6	1425.1	1418.1	1407.1	1382.0
7.5°	1302.2	1306.3	1308.4	1324.3	1346.4	1364.2	1379.3	1384.2	1380.9	1371.5	1339.1
10°	1205.2	1208.4	1213.6	1232.2	1260.2	1284.7	1313.3	1329.7	1336.7	1335.1	1299.0
12.5°	1121.9	1125.2	1131.9	1152.9	1186.3	1216.5	1258.0	1278.5	1295.2	1305.2	1266.4
15°	1047.3	1054.3	1060.8	1085.0	1122.5	1162.1	1209.0	1234.9	1260.7	1283.1	1237.5
17.5°	989.1	996.1	999.8	1021.9	1061.8	1110.3	1165.3	1195.8	1228.1	1264.8	1209.0
20°	955.4	958.6	957.0	969.4	1005.2	1056.7	1121.9	1157.2	1196.3	1247.5	1180.4
22.5°	945.9	946.2	940.3	938.9	962.1	1005.5	1075.6	1118.4	1166.4	1236.2	1155.9
25°	968.9	968.0	951.9	938.7	941.1	966.4	1030.8	1080.7	1141.3	1233.8	1137.0
27.5°	1019.8	1022.2	998.2	973.4	948.9	948.1	996.9	1049.4	1120.9	1244.8	1128.9
30°	1091.2	1095.2	1069.6	1038.1	992.0	954.0	983.7	1030.8	1108.2	1267.7	1127.6
32.5°	1169.4	1173.7	1154.3	1121.1	1060.8	990.7	992.8	1032.5	1107.6	1299.8	1136.8
35°	1252.6	1257.5	1247.5	1219.5	1152.4	1058.3	1027.9	1058.6	1125.2	1348.8	1161.3
37.5°	1345.6	1353.2	1355.9	1329.2	1257.5	1147.5	1085.3	1108.2	1164.8	1417.0	1206.3
40°	1479.6	1490.1	1489.3	1451.0	1378.0	1268.0	1173.9	1179.9	1226.5	1508.1	1278.2
42.5°	1736.1	1738.3	1671.2	1587.9	1510.5	1394.7	1278.5	1273.7	1311.7	1623.5	1384.2
45°	2062.5	2053.6	1904.3	1743.4	1649.1	1540.2	1414.6	1390.9	1419.7	1764.1	1516.7
47.5°	2333.3	2312.9	2124.2	1902.1	1795.7	1698.4	1574.4	1532.9	1548.8	1923.7	1688.1
50°	2427.4	2412.0	2255.7	2034.2	1934.5	1891.4	1771.2	1712.4	1716.7	2114.0	1888.9
52.5°	2407.2	2405.0	2300.7	2121.2	2064.4	2094.0	2049.8	1970.3	1928.3	2325.2	2105.6
55°	2359.5	2364.1	2326.3	2222.6	2212.9	2289.7	2413.9	2355.2	2224.5	2538.4	2329.6
57.5°	2193.7	2205.6	2288.6	2350.0	2451.9	2566.2	2707.1	2690.4	2543.3	2768.8	2595.8
60°	1767.4	1794.9	2017.5	2325.2	2698.0	3055.3	3118.4	3079.6	2872.1	3054.8	2947.5
62.5°	1238.4	1266.9	1531.6	2013.2	2657.5	3607.8	3853.6	3686.2	3344.2	3476.0	3402.7
65°	663.0	676.7	878.8	1396.8	2243.6	3721.8	4928.1	4673.4	4091.8	3995.3	3792.1
67.5°	365.7	373.3	450.6	705.3	1437.0	3277.4	5612.6	5805.0	5026.2	4341.1	3721.3
69°	330.7	337.7	388.3	534.1	961.6	2709.8	5545.8	6103.4	5435.8	4306.9	3459.3
70°	323.4	329.9	375.4	492.4	778.3	2233.6	5321.8	6027.1	5533.4	4184.3	3230.8
72.5°	291.1	298.1	342.3	442.2	665.1	1113.6	4215.5	5096.0	5023.8	3628.0	2450.6
75°	271.4	277.9	352.8	433.1	636.8	704.7	2779.1	3755.8	3693.0	2537.9	1321.4
77.5°	116.2	115.6	163.6	366.5	646.3	682.4	1493.3	2346.3	2140.6	1084.7	379.5
80°	77.6	76.3	77.6	107.8	592.6	686.1	782.4	1190.9	899.6	276.5	187.0
82.5°	66.8	65.8	68.2	65.8	208.3	783.2	665.1	633.3	427.7	157.1	92.7
85°	45.0	43.1	58.8	59.0	98.4	695.8	749.2	535.0	346.0	93.2	45.8
87.5°	21.6	21.0	34.2	41.8	57.7	282.7	840.6	548.2	349.0	47.7	21.8
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°	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6	1421.6
2.5°	1407.9	1396.8	1386.0	1373.1	1359.6	1344.5	1337.0	1329.4	1327.6	1325.4	1317.9
5°	1369.1	1353.4	1326.5	1296.8	1265.6	1235.1	1211.9	1197.4	1186.3	1180.7	1170.7
7.5°	1318.9	1296.0	1248.9	1197.7	1145.1	1097.1	1055.6	1029.5	1004.7	993.1	979.9
10°	1271.2	1237.0	1163.7	1088.2	1012.8	940.3	872.1	823.9	781.0	757.0	740.0
12.5°	1230.3	1183.4	1081.8	979.6	876.1	772.9	670.8	590.5	523.4	488.1	470.0
15°	1190.4	1133.8	1003.9	874.3	741.4	601.0	466.8	375.7	320.2	298.1	290.5
17.5°	1154.3	1081.8	925.7	768.1	602.3	432.5	313.7	263.6	242.3	235.0	232.6
20°	1115.2	1029.2	844.6	657.0	457.3	302.4	245.0	222.9	214.3	212.1	211.0
22.5°	1077.5	977.5	767.0	538.2	328.5	233.4	210.5	201.3	200.0	201.9	201.9
25°	1045.4	931.1	683.2	414.0	241.2	196.5	188.4	186.2	191.3	198.4	199.7
27.5°	1021.4	893.1	594.0	305.6	192.2	170.9	170.6	174.1	186.8	200.2	202.9
30°	1005.0	857.0	498.6	220.5	161.2	150.4	154.7	162.2	180.8	200.0	205.1
32.5°	996.6	830.3	399.1	170.6	138.0	132.1	139.3	148.5	166.8	184.6	191.3
35°	1003.1	810.7	305.3	142.3	121.8	117.2	124.8	133.7	144.5	152.0	157.1
37.5°	1027.3	802.8	230.4	127.5	110.8	106.5	112.4	117.5	121.8	124.0	126.4
40°	1079.6	811.2	184.6	119.9	104.6	99.2	101.6	103.5	106.2	108.3	109.4
42.5°	1156.7	836.3	165.5	117.0	101.3	93.5	93.0	93.8	97.3	101.3	102.1
45°	1264.5	880.5	164.1	118.8	99.7	88.9	86.5	87.6	93.0	99.2	100.3
47.5°	1402.2	947.8	174.9	124.5	101.1	86.5	82.5	83.8	90.6	98.9	100.3
50°	1569.0	1041.9	193.0	132.9	107.0	87.0	81.1	81.9	88.9	98.1	99.4
52.5°	1766.0	1175.3	212.6	140.9	113.2	90.6	82.2	80.3	86.8	94.9	96.5
55°	1985.1	1346.4	232.8	148.2	116.4	94.9	84.4	78.2	82.7	89.5	90.8
57.5°	2254.1	1585.7	267.9	155.2	118.6	97.8	86.5	76.0	77.6	82.5	83.5
60°	2618.2	1924.2	329.6	166.8	123.4	98.9	86.2	74.1	72.5	75.2	75.7
62.5°	3054.5	2291.8	381.1	181.4	131.5	99.7	84.6	72.8	68.2	68.2	68.7
65°	3313.5	2390.2	352.5	193.5	138.3	98.9	82.7	71.4	64.9	62.0	62.3
67.5°	3093.9	2102.1	302.1	195.9	138.0	95.1	79.8	69.0	61.7	57.1	56.9
69°	2818.7	1813.7	279.5	189.5	131.5	90.3	76.0	66.3	59.3	54.4	54.2
70°	2596.9	1637.8	264.6	182.5	124.5	86.8	73.0	63.9	57.4	52.8	52.3
72.5°	1888.1	1073.2	226.1	156.8	102.7	72.8	63.1	56.1	51.2	48.5	48.0
75°	943.5	511.8	183.5	127.2	78.7	58.2	51.7	46.9	44.5	43.9	43.7
77.5°	309.9	234.5	131.2	94.9	58.5	45.5	41.8	38.3	37.7	39.3	38.8
80°	170.3	136.4	83.3	62.8	39.9	33.4	32.9	31.0	31.8	34.5	34.0
82.5°	86.8	70.9	51.5	37.7	27.0	24.0	26.1	25.1	26.1	28.6	28.3
85°	42.9	38.8	32.6	22.9	17.8	15.4	18.6	19.4	19.9	21.8	21.8
87.5°	24.8	22.9	17.2	10.8	8.9	8.1	10.8	10.5	12.4	13.5	13.2
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)