

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: P321586

Luminaire Tested: **GAN-SA2A-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7334 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

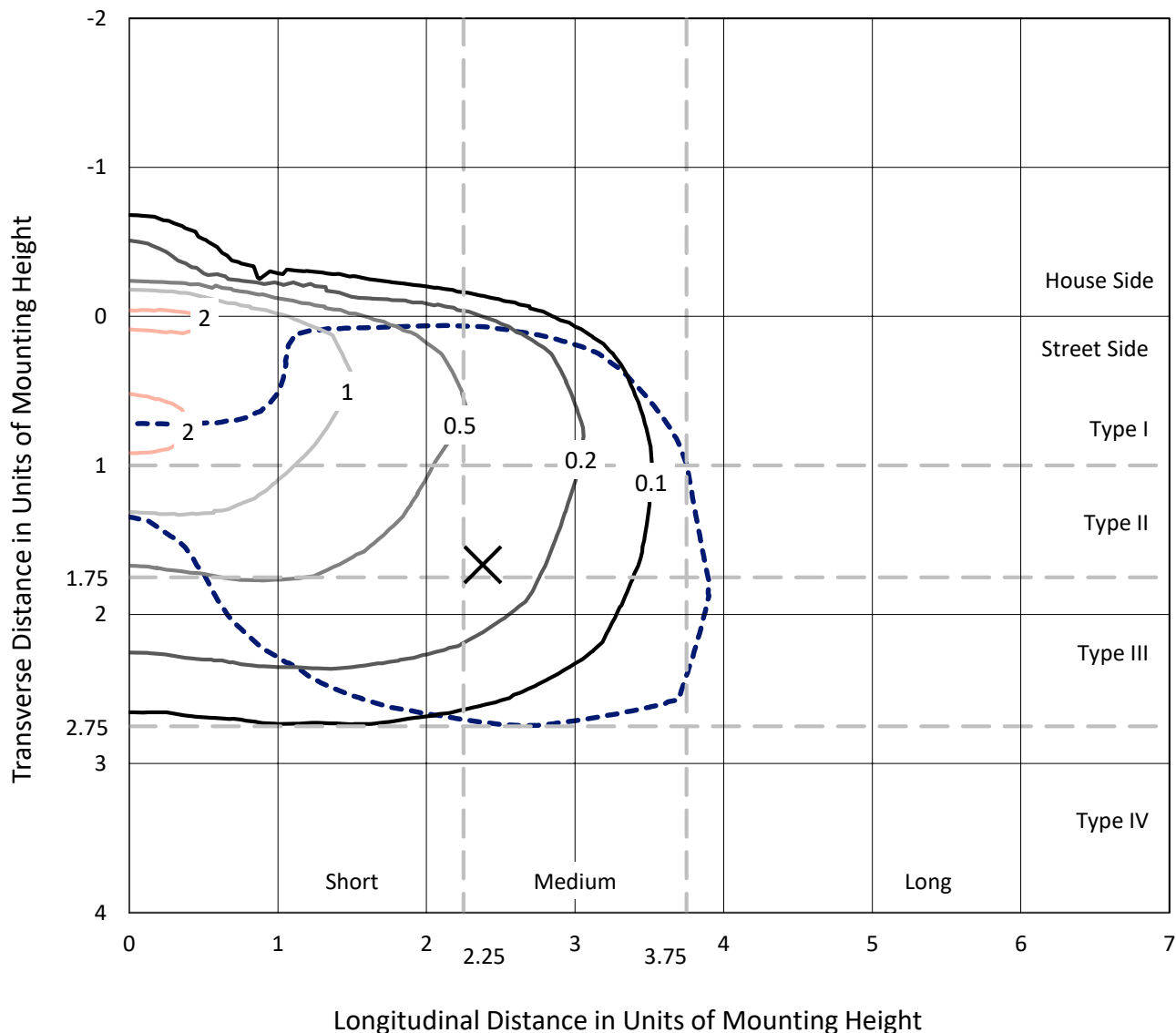
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

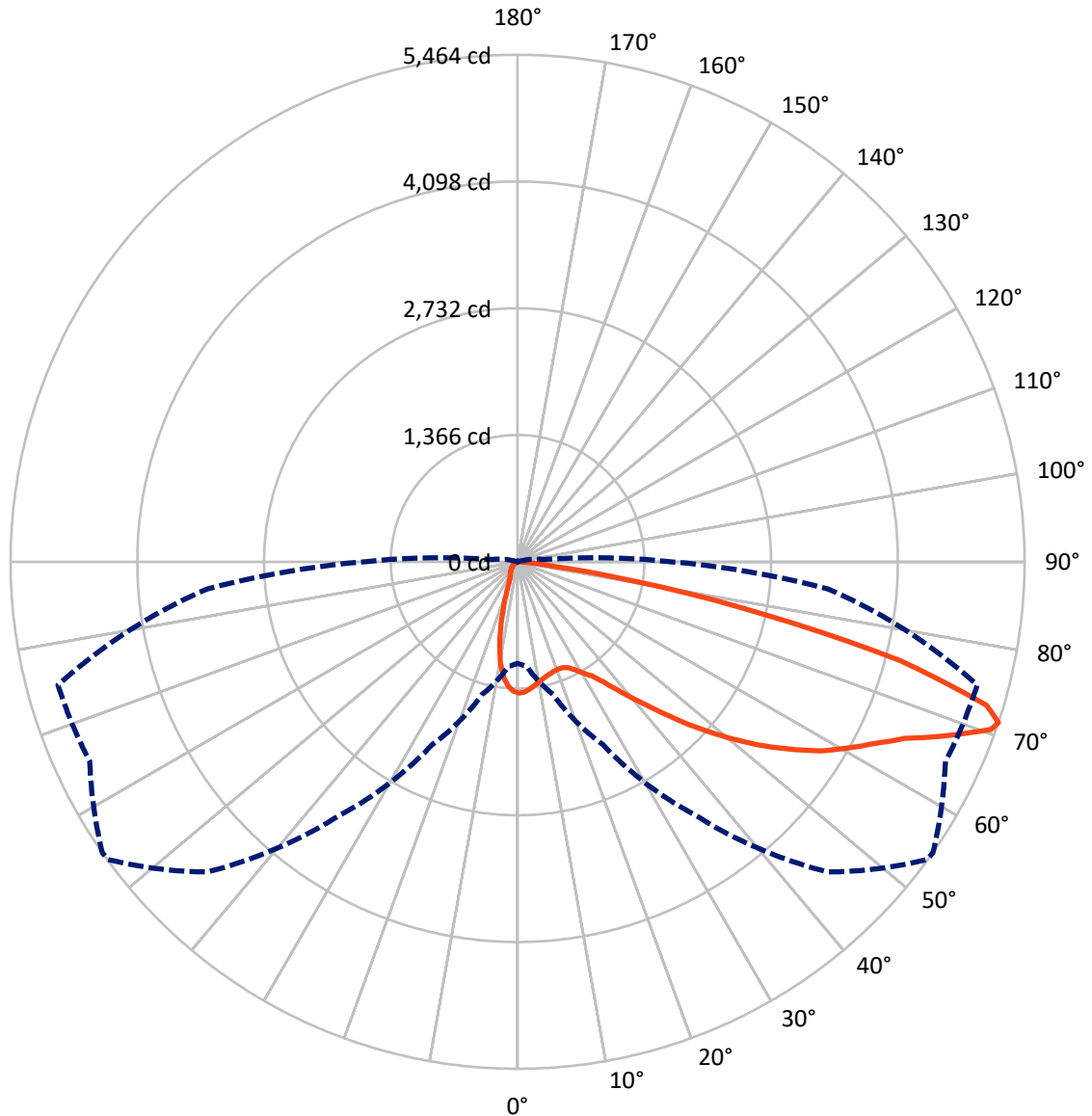
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	580.7	0.0	580.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	6753.3	0.0	6753.3
	% Fixture	92.1	0.0	92.1
Total	Lumens	7334.0	0.0	7334.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	1.6
10°-20°	272.3	3.7
20°-30°	437.5	6.0
30°-40°	743.4	10.1
40°-50°	1153.8	15.7
50°-60°	1551.3	21.2
60°-70°	1897.7	25.9
70°-80°	1109.5	15.1
80°-90°	48.0	0.7
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°	7334.0	100.0
0°-180°	7334.0	100.0

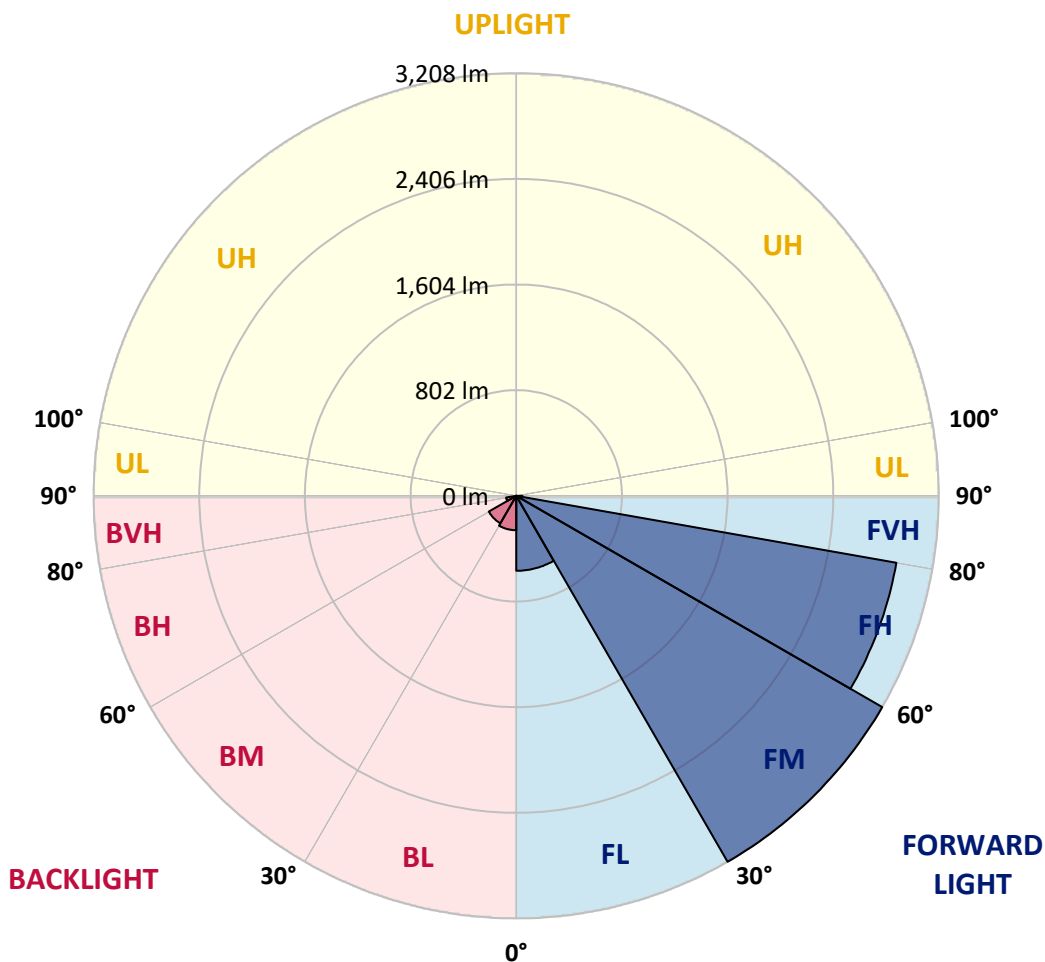


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.0	7.8			
FM (30°-60°)	3207.7	43.7			
FH (60°-80°)	2929.4	39.9			G2/5000
FVH (80°-90°)	47.2	0.6			G1/100
BL (0°-30°)	261.4	3.6	B1/500		
BM (30°-60°)	240.7	3.3	B1/1000		
BH (60°-80°)	77.8	1.1	B0/110		G0/110
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1372.9	1374.5	1380.5	1383.1	1389.4	1399.9	1405.2	1405.5	1414.1	1417.4	1420.0
5°	1275.7	1285.6	1295.5	1306.0	1325.1	1350.5	1375.5	1377.8	1405.5	1425.9	1436.8
7.5°	1192.1	1201.0	1212.9	1229.6	1256.6	1296.5	1338.3	1343.3	1395.6	1442.1	1466.4
10°	1106.2	1113.4	1130.5	1155.2	1192.4	1245.8	1302.1	1310.3	1386.7	1463.8	1506.6
12.5°	1014.3	1018.6	1039.3	1074.9	1129.5	1197.4	1271.5	1282.3	1381.1	1488.8	1554.0
15°	944.5	946.4	966.2	1003.1	1065.6	1153.9	1247.8	1260.9	1382.4	1518.8	1605.7
17.5°	926.7	927.7	938.2	963.6	1018.9	1115.0	1229.0	1245.1	1386.4	1548.1	1657.7
20°	998.8	991.9	981.0	977.1	1000.8	1091.7	1217.8	1235.9	1391.7	1574.1	1704.5
22.5°	1196.7	1176.3	1131.2	1070.9	1034.4	1093.3	1220.8	1238.9	1408.5	1606.0	1758.5
25°	1490.5	1462.1	1385.4	1266.9	1152.9	1140.7	1245.5	1263.9	1441.1	1644.2	1810.2
27.5°	1824.7	1796.7	1702.9	1533.6	1339.3	1234.6	1302.1	1319.2	1489.5	1678.2	1849.7
30°	2144.8	2136.9	2026.2	1833.9	1573.8	1386.7	1375.2	1389.7	1525.4	1698.6	1881.0
32.5°	2416.2	2403.6	2314.7	2127.7	1842.2	1569.5	1461.2	1465.4	1552.4	1724.9	1921.9
35°	2667.7	2652.3	2574.2	2397.4	2117.5	1792.8	1593.5	1587.3	1611.3	1777.9	1981.1
37.5°	2887.4	2901.6	2814.9	2646.7	2364.4	2024.9	1772.0	1753.2	1703.5	1864.2	2067.1
40°	3071.1	3071.1	3026.0	2885.7	2631.2	2265.0	1973.9	1949.2	1842.2	1997.3	2176.1
42.5°	3137.3	3151.5	3168.3	3088.9	2869.9	2514.6	2198.8	2173.1	2037.4	2186.0	2313.7
45°	3141.3	3163.7	3249.6	3249.3	3085.6	2762.6	2452.4	2440.2	2287.7	2428.3	2484.3
47.5°	3085.6	3113.6	3255.2	3335.6	3256.6	2993.4	2729.7	2714.5	2581.8	2725.4	2662.8
50°	2999.7	3030.6	3195.3	3369.5	3372.8	3194.3	3021.8	2999.0	2905.5	3064.9	2847.2
52.5°	2845.9	2905.8	3141.6	3377.4	3449.2	3367.9	3299.7	3289.8	3267.7	3391.9	2994.1
55°	2516.9	2583.4	3006.9	3380.0	3520.0	3521.6	3560.2	3562.8	3607.3	3697.5	3103.4
57.5°	2361.5	2399.0	2771.8	3392.6	3625.0	3696.2	3825.6	3846.0	3914.8	3987.6	3228.2
60°	2263.7	2308.1	2655.9	3375.4	3790.0	3925.1	4071.6	4078.5	4152.3	4287.0	3397.2
62.5°	2185.6	2229.4	2582.8	3309.6	3975.4	4200.4	4312.0	4312.6	4368.0	4643.6	3589.2
65°	1993.0	2029.9	2434.9	3235.5	4097.9	4472.7	4591.2	4587.0	4632.1	5019.7	3812.1
67.5°	1714.4	1742.7	2132.9	2954.6	4051.8	4720.3	5012.8	4998.6	4943.9	5344.7	3899.7
70°	1325.5	1335.7	1681.1	2462.3	3619.8	4815.5	5420.1	5412.9	5135.3	5286.4	3578.6
71°	1095.6	1129.2	1481.6	2173.1	3330.3	4727.6	5459.6	5463.9	5087.2	5127.7	3357.6
72.5°	636.2	664.9	1073.9	1668.9	2827.5	4360.7	5254.8	5285.8	4862.6	4664.0	2868.0
75°	136.3	145.9	398.1	807.8	1555.3	3056.3	4147.7	4258.0	3963.3	3172.9	1728.6
77.5°	94.8	102.4	170.6	366.5	514.1	1510.2	2576.5	2701.0	2367.7	1192.4	553.2
80°	75.1	83.6	133.0	181.1	139.0	487.1	1206.9	1283.0	789.7	266.1	93.2
82.5°	41.8	49.7	103.7	97.8	53.3	92.5	337.9	382.0	158.1	53.7	22.1
85°	12.2	14.8	66.9	71.1	22.7	17.8	57.6	71.5	30.0	14.2	9.9
87.5°	0.0	0.0	32.3	27.3	6.6	2.6	5.3	5.9	5.9	5.9	6.6
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°	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4	1414.4
2.5°	1420.0	1422.3	1414.1	1403.2	1391.7	1377.5	1362.7	1351.2	1350.8	1345.2	1339.6
5°	1437.4	1436.1	1413.4	1378.8	1338.0	1295.5	1255.0	1209.2	1194.1	1175.3	1169.1
7.5°	1469.7	1460.5	1412.4	1336.7	1247.1	1158.2	1066.3	973.8	934.3	898.7	892.4
10°	1510.2	1492.8	1406.2	1273.4	1109.1	945.1	806.5	680.7	625.4	582.9	580.9
12.5°	1552.4	1525.7	1388.7	1177.9	928.3	697.8	538.1	414.3	368.2	338.5	341.2
15°	1596.5	1556.7	1351.2	1049.2	722.5	473.5	330.6	257.9	239.4	231.8	233.8
17.5°	1641.6	1578.1	1298.8	894.1	519.3	305.6	228.9	208.5	208.5	210.1	210.8
20°	1680.8	1589.6	1221.7	720.2	352.0	222.6	200.2	197.3	198.9	201.5	201.9
22.5°	1719.7	1590.2	1121.3	544.0	246.3	195.0	190.7	189.4	190.3	193.3	193.6
25°	1751.3	1582.3	995.5	386.9	196.6	183.8	181.8	181.1	181.8	185.4	185.4
27.5°	1764.1	1553.7	842.0	272.0	176.2	171.2	170.6	171.2	172.2	174.9	175.2
30°	1765.4	1503.6	674.8	196.9	159.7	154.4	155.8	158.1	157.1	156.4	157.1
32.5°	1768.7	1445.7	511.7	162.0	145.9	137.7	136.0	136.0	132.1	129.7	128.4
35°	1779.6	1377.5	371.1	145.6	131.7	122.2	115.9	108.7	101.1	97.1	96.2
37.5°	1796.7	1306.0	265.8	134.7	119.2	108.3	96.5	83.6	72.8	69.8	69.8
40°	1828.0	1232.3	196.6	126.1	109.3	95.8	78.0	61.3	51.4	49.7	49.7
42.5°	1877.4	1154.6	156.8	118.6	100.8	83.0	59.6	44.5	37.2	36.2	35.9
45°	1928.8	1068.9	137.0	111.3	91.5	68.2	44.1	32.9	28.7	27.7	27.7
47.5°	1980.1	977.7	127.4	104.4	82.7	53.0	32.9	26.0	24.0	24.0	24.4
50°	2023.6	882.6	120.5	96.8	71.1	40.2	26.0	22.1	21.4	22.7	23.1
52.5°	2034.5	789.0	112.0	87.3	57.0	30.6	21.4	19.4	19.4	19.4	19.4
55°	2027.9	716.6	100.8	75.4	42.2	24.4	18.4	17.1	16.8	16.8	16.8
57.5°	2050.3	673.8	80.7	58.6	30.3	19.8	16.1	15.1	14.5	14.2	14.2
60°	2095.4	645.8	57.6	42.2	22.7	16.5	13.8	12.8	11.9	11.2	11.2
62.5°	2155.3	621.4	42.8	31.3	17.5	13.2	11.5	10.5	9.2	8.6	8.6
65°	2201.4	577.9	32.6	23.4	13.2	10.5	8.9	8.6	6.6	5.9	5.6
67.5°	2131.0	482.4	26.3	17.1	9.9	8.2	6.9	6.6	4.0	3.3	3.3
70°	1827.7	335.9	21.1	12.5	7.2	6.6	5.6	4.3	3.0	2.6	2.6
71°	1657.4	280.6	19.1	10.5	6.3	6.3	5.3	3.6	2.6	2.3	2.3
72.5°	1376.8	199.2	16.1	8.2	5.6	6.6	5.6	3.3	2.6	2.3	2.0
75°	799.2	83.3	11.2	5.6	4.3	7.9	7.2	3.0	2.0	1.6	1.6
77.5°	240.4	30.6	6.3	3.6	3.3	6.9	8.2	2.6	1.0	0.3	0.3
80°	43.8	13.2	4.0	2.3	2.3	4.3	6.3	1.3	0.0	0.0	0.0
82.5°	15.5	6.6	2.3	1.3	1.0	2.0	3.0	0.0	0.0	0.0	0.0
85°	8.9	4.6	1.3	0.7	0.0	0.3	0.7	0.0	0.0	0.0	0.0
87.5°	5.9	1.3	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)