

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: P323755

Luminaire Tested: **GAN-SA1B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323755
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4062 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

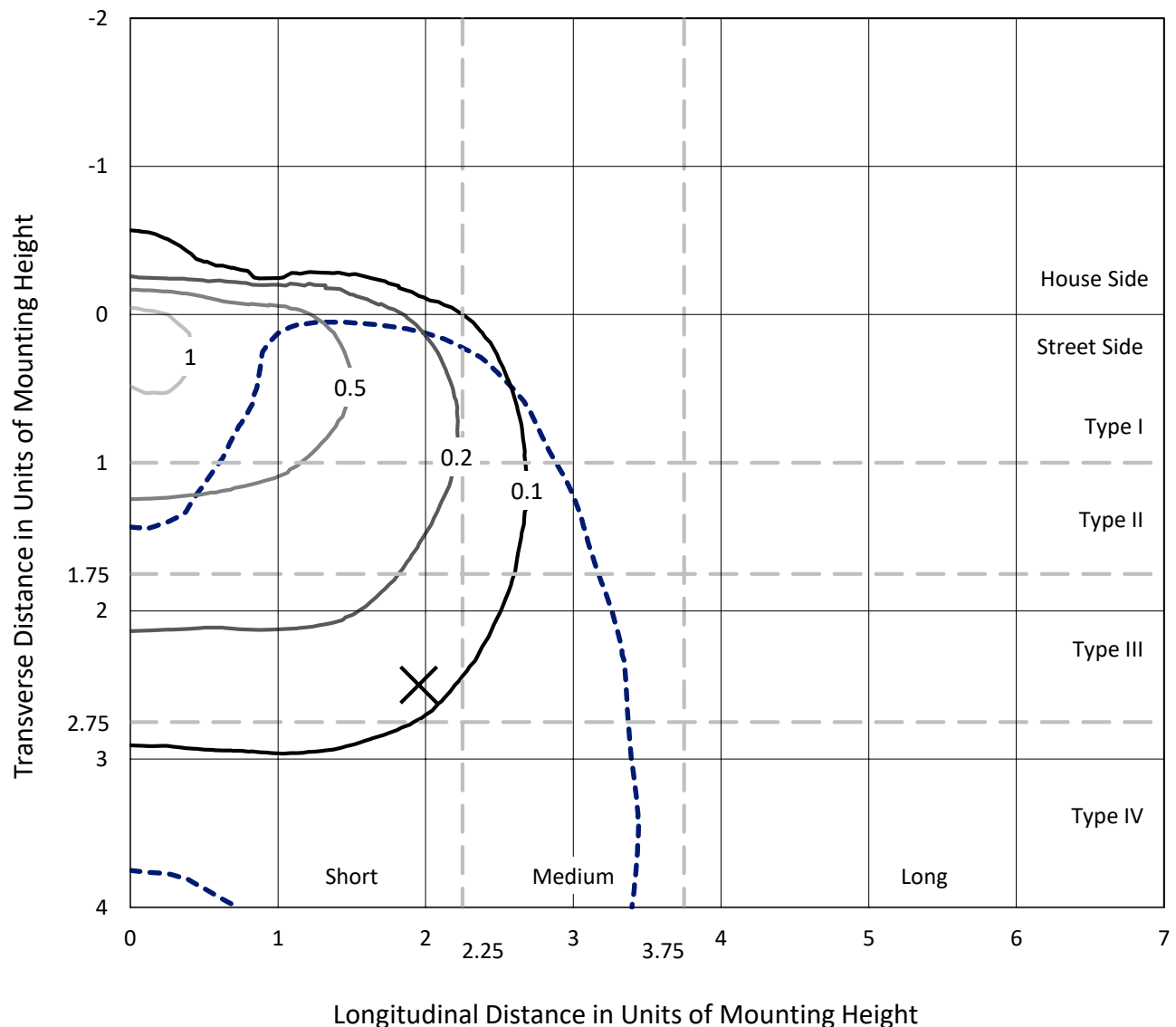


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Iso-Footcandle Lines of Horizontal Illumination

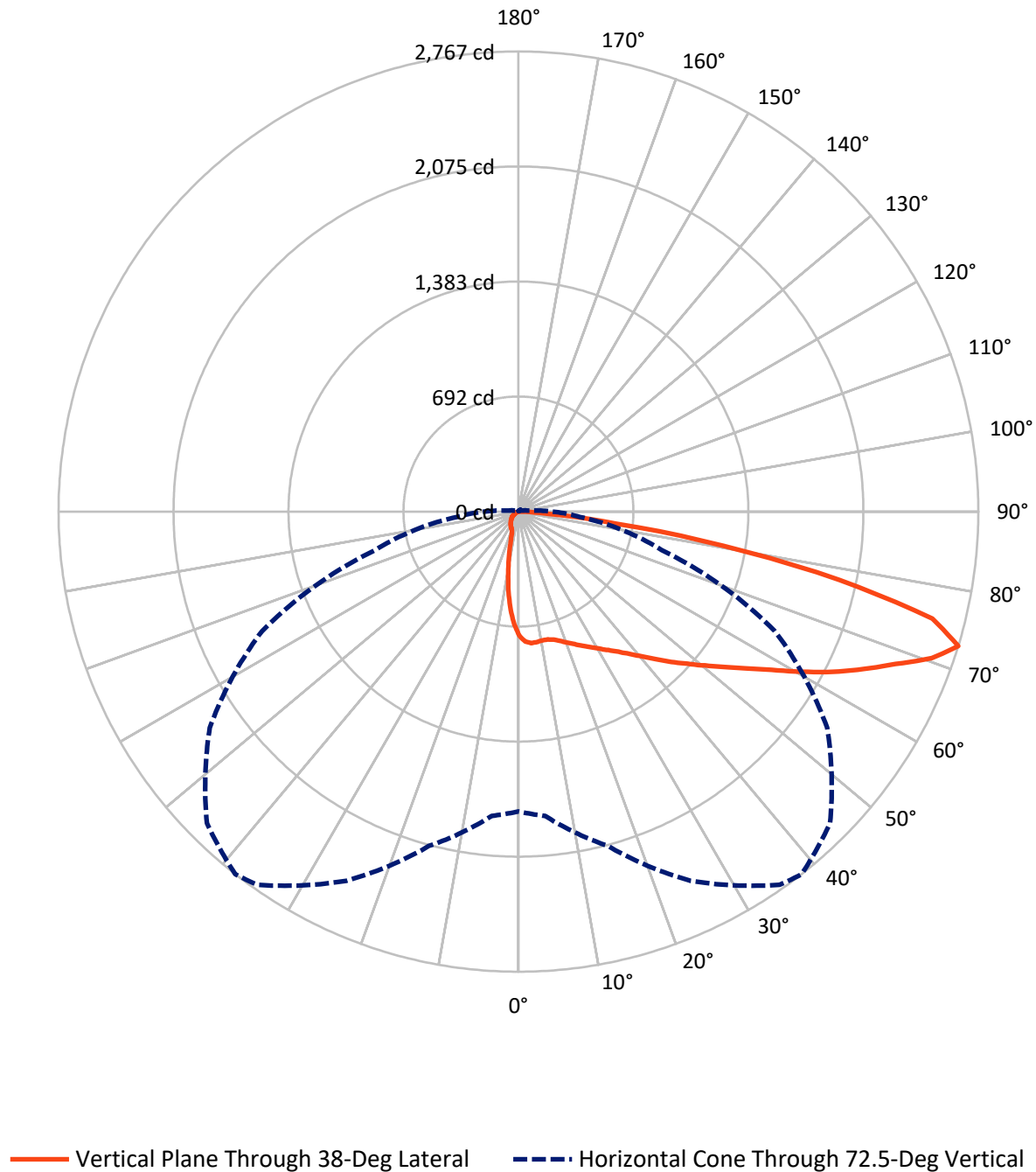
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	341.8	0.0	341.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3720.2	0.0	3720.2
	% Fixture	91.6	0.0	91.6
Total	Lumens	4062.0	0.0	4062.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.6
10°-20°	155.7	3.8
20°-30°	247.6	6.1
30°-40°	372.2	9.2
40°-50°	567.8	14.0
50°-60°	802.5	19.8
60°-70°	1006.6	24.8
70°-80°	752.7	18.5
80°-90°	93.3	2.3
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°	4062.0	100.0
0°-180°	4062.0	100.0

Coefficient of Utilization



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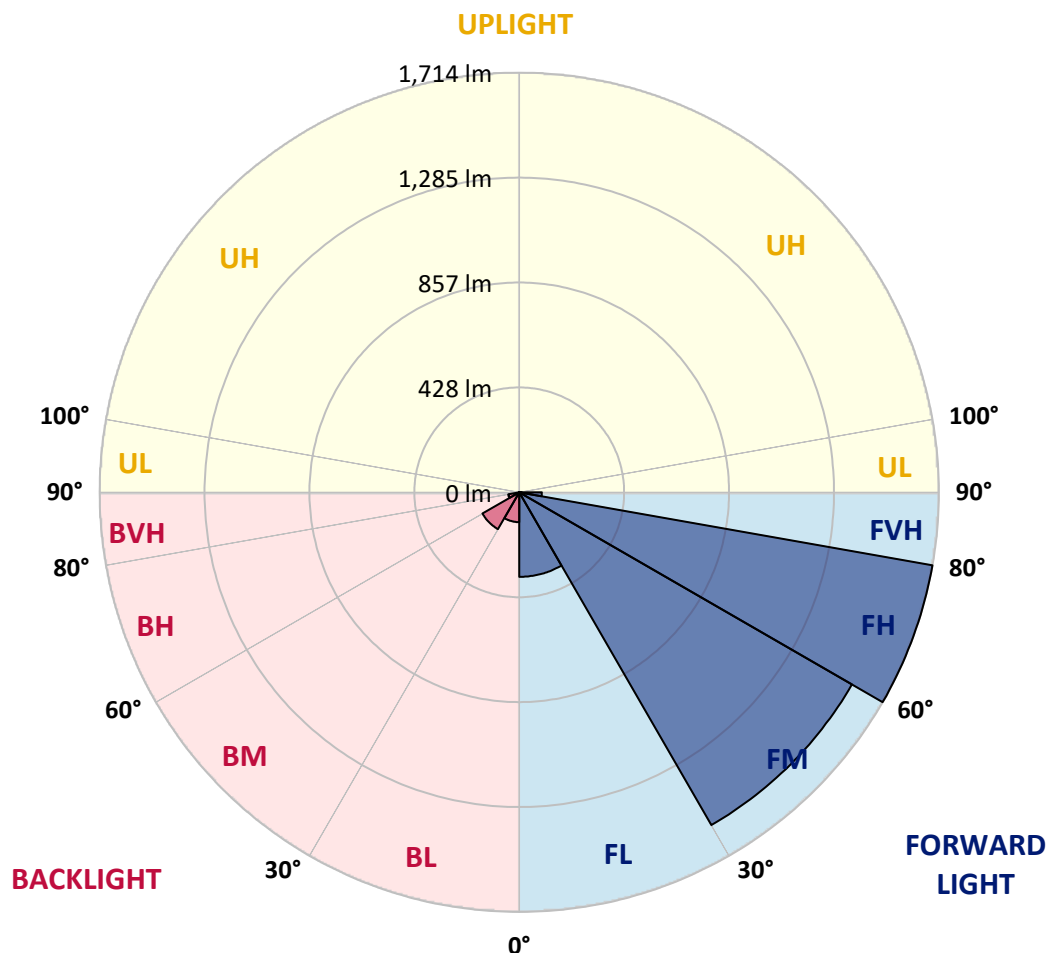
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	345.2	8.5			
FM	(30°-60°)	1568.9	38.6			
FH	(60°-80°)	1713.6	42.2			G1/1800
FVH	(80°-90°)	92.5	2.3			G1/100
BL	(0°-30°)	121.7	3.0	B1/500		
BM	(30°-60°)	173.6	4.3	B0/220		
BH	(60°-80°)	45.7	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	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-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
2.5°	792.9	793.0	791.2	788.2	784.3	782.2	778.9	773.5	767.7	757.4	746.3
5°	809.1	809.1	806.7	802.7	796.4	794.6	788.2	779.5	767.7	751.0	732.3
7.5°	807.4	807.7	804.5	800.3	794.1	792.4	784.6	775.0	760.3	740.1	716.1
10°	798.6	799.5	796.9	794.9	789.2	787.3	780.1	770.4	755.8	734.2	706.7
12.5°	789.7	790.5	791.4	793.2	789.7	789.0	783.3	775.2	761.2	738.7	707.7
15°	783.9	785.6	791.7	798.9	799.8	799.1	795.4	787.8	773.6	750.4	714.9
17.5°	783.9	786.6	799.3	813.1	818.0	818.5	815.3	804.7	787.8	762.8	721.7
20°	790.5	794.2	814.0	833.5	841.6	841.6	835.4	820.5	800.8	774.1	726.2
22.5°	807.4	812.3	837.1	859.7	868.3	866.4	858.0	836.4	814.3	787.0	732.0
25°	840.6	844.3	870.1	892.9	898.1	893.9	883.3	855.6	831.5	804.3	742.4
27.5°	883.5	884.0	910.6	929.9	926.7	923.8	910.5	879.8	856.3	829.1	760.5
30°	930.5	930.5	954.0	968.7	958.9	956.5	943.2	908.9	888.0	862.9	786.1
32.5°	976.1	978.1	997.2	1006.4	995.5	993.1	980.1	945.9	930.2	914.3	826.1
35°	1020.1	1021.6	1039.7	1044.7	1034.3	1035.0	1025.7	996.7	990.8	988.7	886.3
37.5°	1062.8	1063.1	1081.5	1084.7	1079.5	1085.2	1086.1	1060.4	1071.4	1087.8	971.2
40°	1101.8	1102.1	1120.3	1128.6	1137.5	1144.9	1151.5	1137.9	1174.1	1212.1	1072.2
42.5°	1133.0	1136.5	1159.6	1175.3	1198.9	1213.1	1231.0	1230.3	1296.4	1353.5	1194.4
45°	1160.5	1166.5	1198.8	1226.3	1266.7	1289.3	1317.4	1339.3	1434.1	1510.8	1318.0
47.5°	1196.7	1202.5	1239.2	1284.3	1338.3	1368.0	1414.4	1461.8	1585.4	1665.4	1438.8
50°	1247.8	1245.3	1281.6	1346.2	1415.5	1454.5	1520.6	1591.7	1735.6	1800.0	1509.8
52.5°	1302.3	1301.3	1328.1	1413.5	1506.6	1552.2	1639.6	1725.9	1879.1	1892.8	1542.4
55°	1369.8	1362.6	1385.2	1490.3	1614.8	1663.7	1766.6	1858.9	1993.5	1945.1	1558.8
57.5°	1440.5	1428.5	1450.1	1575.8	1736.7	1794.6	1907.3	1988.4	2069.6	1980.8	1558.6
60°	1513.5	1499.4	1525.0	1682.7	1888.2	1955.2	2059.8	2076.0	2140.6	1998.9	1547.1
62.5°	1574.6	1566.2	1604.3	1797.1	2057.4	2123.2	2175.0	2155.6	2200.5	2012.9	1520.3
65°	1639.2	1639.7	1701.3	1930.6	2237.3	2281.6	2286.0	2258.8	2250.6	2010.0	1429.5
67.5°	1726.6	1734.7	1837.4	2111.7	2412.2	2446.4	2446.1	2370.7	2287.2	1896.0	1228.3
70°	1819.1	1838.1	1994.3	2319.1	2603.2	2637.9	2620.0	2441.9	2153.6	1533.1	869.3
72.5°	1803.5	1836.6	2081.5	2449.8	2740.3	2766.8	2650.6	2266.9	1702.1	891.1	370.1
75°	1391.4	1429.7	1908.6	2320.3	2596.4	2572.6	2277.4	1764.1	930.2	248.7	83.3
77.5°	735.0	755.4	1260.8	1767.6	2024.5	1974.8	1604.3	978.6	283.6	61.6	37.5
80°	385.0	389.7	549.4	1002.9	1249.5	1249.9	950.8	429.8	116.9	31.5	25.1
82.5°	206.1	210.2	290.3	463.4	654.7	593.5	364.0	236.5	68.0	17.9	24.1
85°	49.6	50.4	164.6	211.7	257.4	183.9	108.1	198.6	18.4	10.5	19.6
87.5°	19.1	19.4	61.1	91.6	65.6	42.5	50.6	74.1	2.4	4.0	3.0
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°	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0	747.0
2.5°	739.6	735.2	724.4	710.7	698.6	689.8	676.6	668.0	662.3	662.1	659.9
5°	720.8	711.9	688.6	661.0	635.8	613.2	586.6	565.5	549.8	547.3	541.9
7.5°	700.8	686.1	650.3	607.1	565.0	522.1	472.4	441.5	415.0	402.3	401.0
10°	688.5	667.9	617.1	554.7	488.5	418.9	353.8	308.7	276.2	266.9	260.0
12.5°	685.9	658.8	591.5	505.4	410.9	318.8	246.8	198.9	172.9	164.6	162.5
15°	688.5	654.5	569.9	456.7	332.3	226.2	165.7	137.8	128.0	125.7	125.5
17.5°	690.0	649.5	545.4	402.5	256.1	161.6	126.9	118.8	117.2	117.1	117.4
20°	689.8	641.7	516.2	342.1	190.5	127.0	114.7	113.0	112.7	112.9	112.7
22.5°	688.6	632.6	484.2	279.9	143.9	113.5	109.5	108.5	108.3	108.3	108.3
25°	690.8	625.4	448.9	220.3	118.6	107.3	104.8	103.9	103.7	103.7	103.4
27.5°	698.7	621.3	410.3	169.5	107.1	101.7	99.7	99.5	99.0	98.9	99.2
30°	711.6	621.3	367.9	131.9	100.2	96.0	94.5	94.1	94.0	93.8	94.0
32.5°	734.2	626.0	321.7	109.7	93.6	89.6	88.6	89.1	88.6	88.6	88.6
35°	775.0	640.2	273.3	95.7	86.7	83.3	82.3	83.0	82.7	82.7	82.5
37.5°	834.5	666.5	224.5	87.2	80.6	77.1	75.7	76.8	76.4	76.4	76.3
40°	907.1	704.8	178.1	80.8	74.7	71.0	69.8	70.3	69.5	69.5	69.8
42.5°	996.7	753.4	137.7	74.6	68.8	65.3	64.6	64.1	62.6	61.7	61.9
45°	1096.2	804.0	107.3	68.5	63.3	60.4	59.4	58.0	55.5	53.8	54.0
47.5°	1185.1	843.0	87.2	62.6	58.2	56.0	54.5	52.0	48.2	46.2	46.4
50°	1231.8	848.9	74.2	56.7	53.5	51.3	49.1	45.2	40.8	38.6	38.5
52.5°	1243.8	821.2	64.6	51.3	48.8	46.2	43.4	38.1	33.2	30.9	30.5
55°	1248.2	779.0	56.0	46.2	43.7	40.8	37.1	31.2	26.7	24.3	24.1
57.5°	1233.7	716.1	49.3	41.7	38.6	35.1	30.5	25.0	20.6	18.7	18.7
60°	1201.5	630.9	44.0	36.8	33.4	29.4	24.6	19.4	15.4	13.8	13.8
62.5°	1137.2	520.6	39.1	31.7	28.5	24.3	19.9	14.7	10.8	10.0	10.1
65°	1015.9	394.9	34.2	27.2	24.3	20.1	15.5	10.5	7.3	7.3	7.6
67.5°	828.5	274.3	29.2	23.1	20.9	16.4	11.8	7.3	5.1	5.7	6.4
70°	548.4	153.9	25.0	19.1	17.9	13.0	8.8	4.9	4.0	5.4	6.6
72.5°	207.0	59.9	20.9	15.4	15.5	10.0	6.2	3.7	3.7	5.9	7.8
75°	57.7	29.4	15.0	11.3	12.1	7.3	4.6	3.2	3.5	6.7	9.1
77.5°	33.9	21.6	9.8	6.6	8.3	5.1	3.0	2.5	3.0	5.7	8.8
80°	27.3	11.5	5.7	3.4	4.6	2.9	2.0	1.5	0.8	2.2	4.6
82.5°	27.3	6.9	2.7	2.4	2.4	1.5	1.0	0.7	0.2	0.0	1.2
85°	18.4	2.9	1.7	1.5	1.2	0.5	0.3	0.2	0.0	0.0	0.0
87.5°	3.0	1.2	0.7	0.3	0.2	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)