

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: P323905

Luminaire Tested: **GAN-SA1A-760-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323905
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-SA1A-760-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA 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: 3960 lumens
Efficiency: N/A
Efficacy: 116.5 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

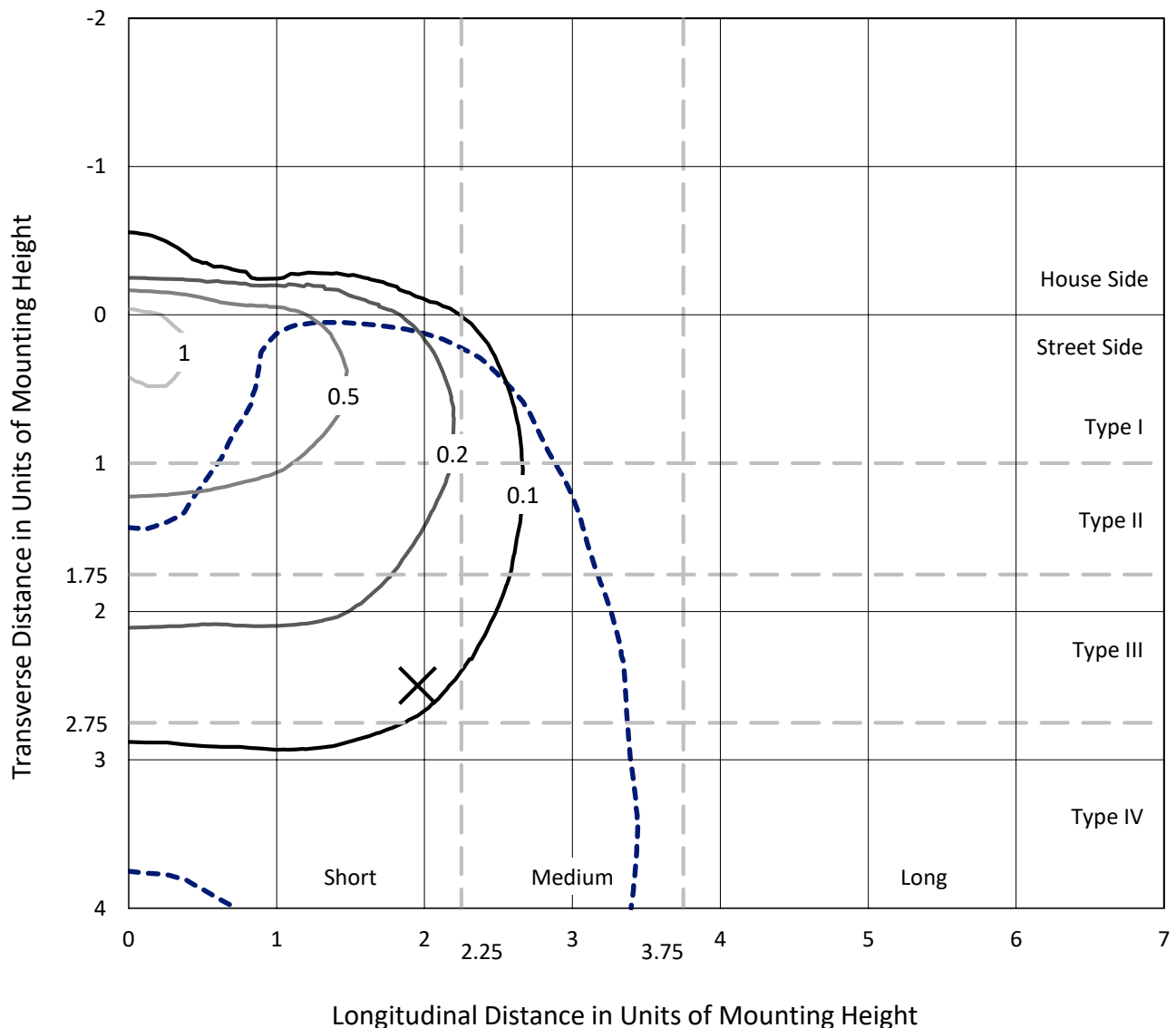
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

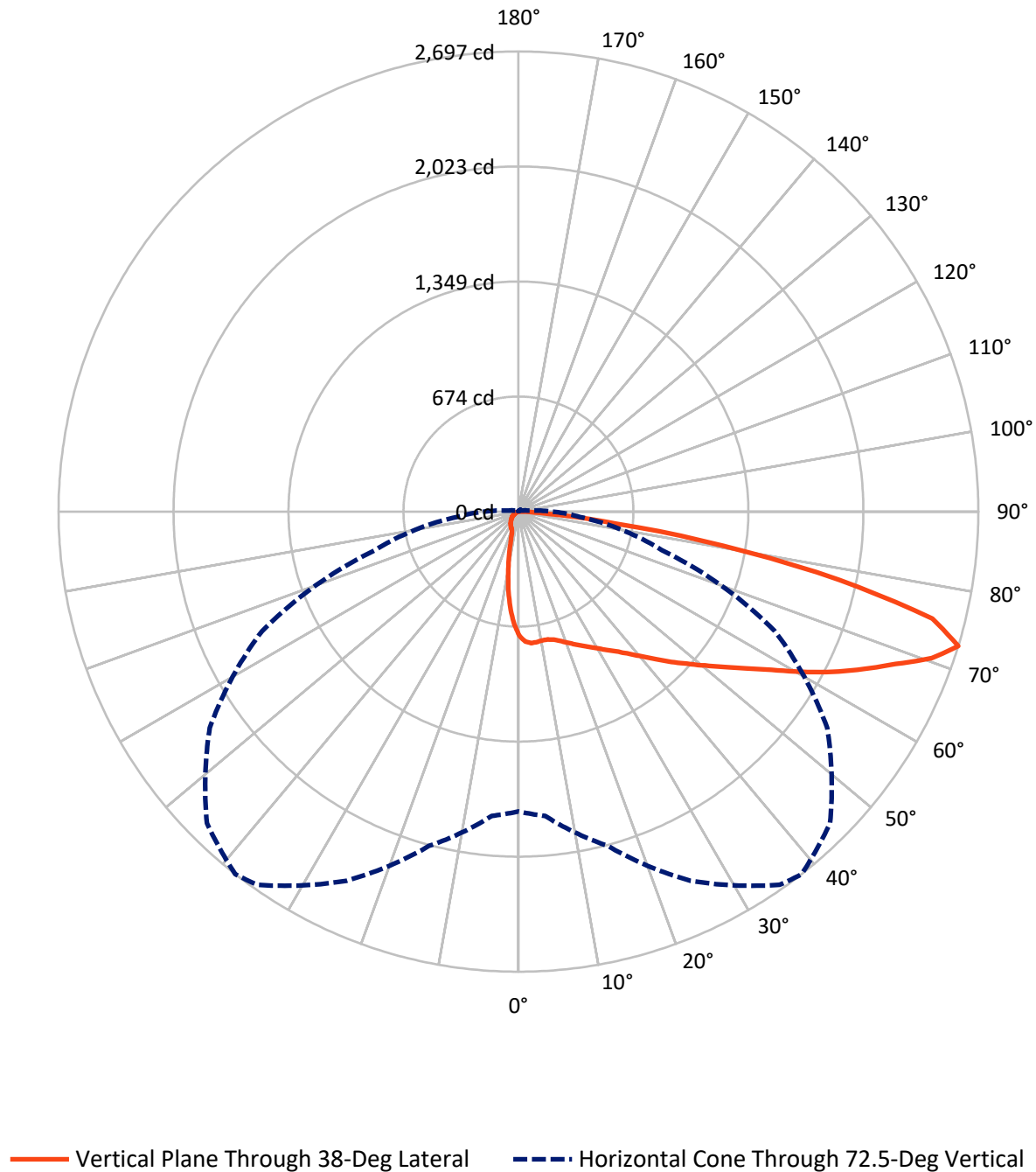
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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	333.3	0.0	333.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3626.8	0.0	3626.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	3960.0	0.0	3960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	1.6
10°-20°	151.7	3.8
20°-30°	241.4	6.1
30°-40°	362.8	9.2
40°-50°	553.6	14.0
50°-60°	782.4	19.8
60°-70°	981.3	24.8
70°-80°	733.8	18.5
80°-90°	91.0	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°	3960.0	100.0
0°-180°	3960.0	100.0

Coefficient of Utilization



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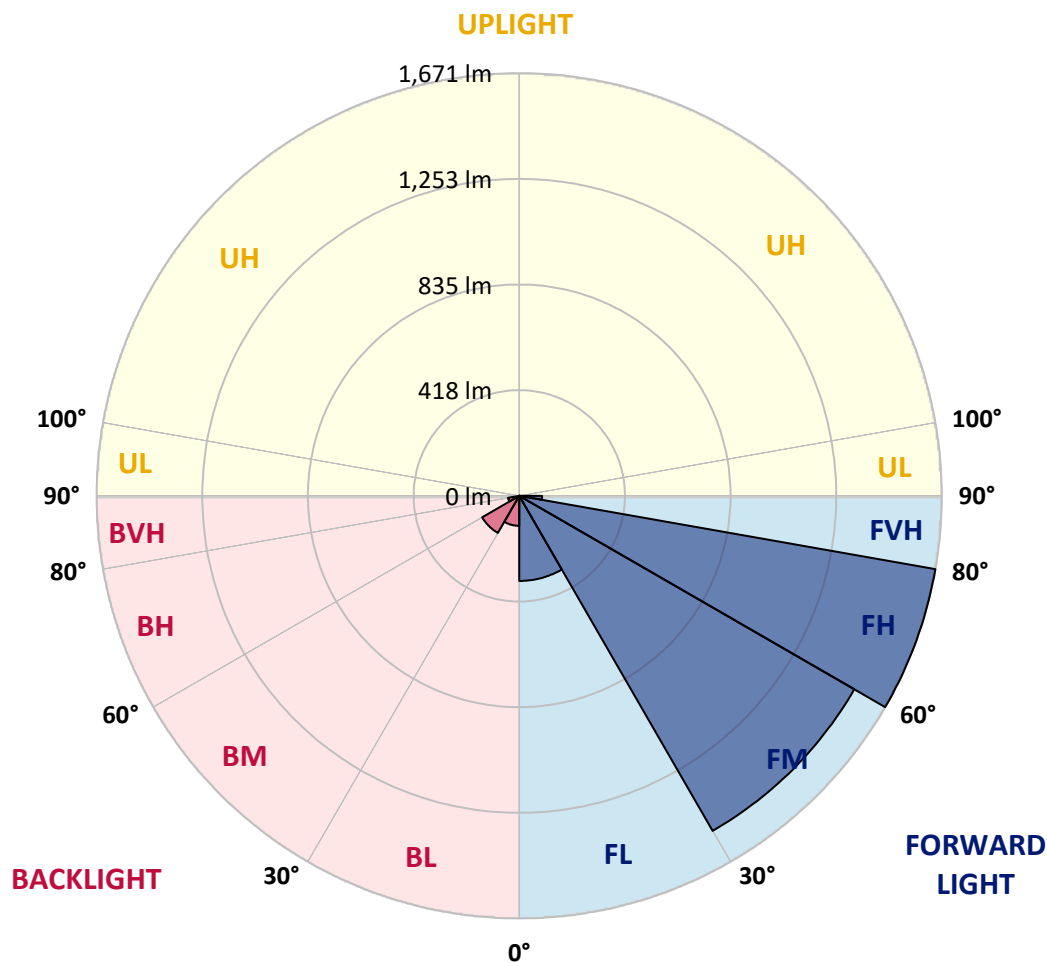
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.5	8.5			
FM	(30°-60°)	1529.5	38.6			
FH	(60°-80°)	1670.6	42.2			G1/1800
FVH	(80°-90°)	90.1	2.3			G1/100
BL	(0°-30°)	118.7	3.0	B1/500		
BM	(30°-60°)	169.2	4.3	B0/220		
BH	(60°-80°)	44.5	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°	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2
2.5°	773.0	773.1	771.3	768.4	764.6	762.6	759.3	754.1	748.5	738.4	727.6
5°	788.8	788.8	786.4	782.5	776.4	774.6	768.4	760.0	748.5	732.2	713.9
7.5°	787.1	787.4	784.3	780.2	774.1	772.5	764.9	755.5	741.2	721.5	698.1
10°	778.6	779.4	776.9	774.9	769.3	767.5	760.5	751.1	736.8	715.7	688.9
12.5°	769.8	770.7	771.5	773.3	769.8	769.2	763.6	755.7	742.0	720.2	689.9
15°	764.2	765.9	771.8	778.9	779.7	779.0	775.4	768.0	754.2	731.5	697.0
17.5°	764.2	766.9	779.2	792.7	797.5	798.0	794.8	784.5	768.0	743.7	703.6
20°	770.7	774.3	793.5	812.6	820.5	820.5	814.4	799.9	780.7	754.7	708.0
22.5°	787.1	791.9	816.1	838.1	846.5	844.7	836.4	815.4	793.9	767.2	713.6
25°	819.5	823.1	848.3	870.5	875.6	871.5	861.1	834.1	810.6	784.1	723.8
27.5°	861.3	861.8	887.8	906.5	903.4	900.6	887.6	857.7	834.8	808.3	741.4
30°	907.2	907.2	930.0	944.3	934.8	932.5	919.5	886.1	865.7	841.2	766.4
32.5°	951.6	953.5	972.1	981.2	970.5	968.2	955.5	922.1	906.8	891.4	805.4
35°	994.5	996.0	1013.6	1018.5	1008.3	1009.0	999.9	971.6	965.9	963.9	864.1
37.5°	1036.1	1036.4	1054.4	1057.5	1052.4	1058.0	1058.8	1033.8	1044.5	1060.4	946.8
40°	1074.1	1074.4	1092.2	1100.2	1109.0	1116.2	1122.6	1109.3	1144.6	1181.6	1045.3
42.5°	1104.5	1108.0	1130.5	1145.8	1168.8	1182.6	1200.1	1199.4	1263.9	1319.5	1164.4
45°	1131.3	1137.2	1168.7	1195.5	1234.9	1257.0	1284.3	1305.7	1398.1	1472.9	1284.9
47.5°	1166.7	1172.3	1208.1	1252.0	1304.7	1333.6	1378.8	1425.0	1545.6	1623.6	1402.7
50°	1216.5	1214.0	1249.4	1312.4	1380.0	1418.0	1482.4	1551.7	1692.0	1754.8	1471.9
52.5°	1269.6	1268.6	1294.8	1378.0	1468.8	1513.2	1598.4	1682.6	1831.9	1845.2	1503.7
55°	1335.4	1328.3	1350.4	1452.8	1574.2	1621.9	1722.2	1812.2	1943.4	1896.2	1519.6
57.5°	1404.3	1392.7	1413.7	1536.2	1693.1	1749.5	1859.4	1938.5	2017.6	1931.1	1519.5
60°	1475.5	1461.7	1486.7	1640.5	1840.8	1906.1	2008.1	2023.9	2086.8	1948.7	1508.3
62.5°	1535.1	1526.9	1564.0	1752.0	2005.8	2069.9	2120.4	2101.5	2145.2	1962.3	1482.1
65°	1598.1	1598.6	1658.6	1882.1	2181.1	2224.3	2228.6	2202.1	2194.1	1959.5	1393.6
67.5°	1683.3	1691.1	1791.3	2058.7	2351.6	2385.0	2384.7	2311.2	2229.8	1848.4	1197.4
70°	1773.4	1792.0	1944.3	2260.8	2537.8	2571.7	2554.2	2380.6	2099.5	1494.6	847.5
72.5°	1758.2	1790.5	2029.3	2388.3	2671.5	2697.3	2584.0	2210.0	1659.4	868.7	360.8
75°	1356.5	1393.8	1860.7	2262.0	2531.2	2508.0	2220.2	1719.8	906.8	242.4	81.2
77.5°	716.6	736.5	1229.2	1723.2	1973.7	1925.2	1564.0	954.0	276.5	60.0	36.5
80°	375.3	379.9	535.6	977.7	1218.2	1218.5	926.9	419.0	114.0	30.8	24.5
82.5°	201.0	204.9	283.0	451.8	638.3	578.6	354.9	230.6	66.3	17.4	23.5
85°	48.4	49.2	160.5	206.4	251.0	179.3	105.4	193.6	17.9	10.2	19.1
87.5°	18.6	18.9	59.5	89.3	64.0	41.4	49.3	72.2	2.3	3.9	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°	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2	728.2
2.5°	721.0	716.7	706.2	692.9	681.0	672.5	659.7	651.3	645.7	645.5	643.4
5°	702.7	694.0	671.3	644.4	619.9	597.8	571.8	551.3	536.0	533.5	528.2
7.5°	683.2	668.9	634.0	591.9	550.8	509.0	460.5	430.4	404.6	392.2	390.9
10°	671.2	651.1	601.6	540.7	476.3	408.4	344.9	301.0	269.2	260.2	253.4
12.5°	668.7	642.2	576.6	492.7	400.6	310.8	240.6	193.9	168.6	160.5	158.4
15°	671.2	638.1	555.5	445.2	324.0	220.5	161.5	134.4	124.8	122.5	122.4
17.5°	672.6	633.2	531.7	392.4	249.7	157.6	123.7	115.8	114.3	114.1	114.5
20°	672.5	625.6	503.2	333.5	185.7	123.8	111.8	110.2	109.9	110.0	109.9
22.5°	671.3	616.7	472.0	272.8	140.3	110.7	106.7	105.7	105.6	105.6	105.6
25°	673.5	609.7	437.6	214.8	115.6	104.6	102.1	101.3	101.1	101.1	100.8
27.5°	681.2	605.7	400.0	165.3	104.4	99.2	97.2	97.0	96.5	96.4	96.7
30°	693.7	605.7	358.7	128.6	97.7	93.6	92.1	91.8	91.6	91.4	91.6
32.5°	715.7	610.3	313.6	106.9	91.3	87.3	86.3	86.8	86.3	86.3	86.3
35°	755.5	624.1	266.4	93.2	84.5	81.2	80.3	80.9	80.6	80.6	80.4
37.5°	813.6	649.8	218.9	85.0	78.6	75.2	73.8	74.8	74.5	74.5	74.3
40°	884.3	687.1	173.7	78.8	72.9	69.2	68.1	68.6	67.8	67.8	68.1
42.5°	971.6	734.5	134.2	72.7	67.1	63.6	63.0	62.5	61.0	60.2	60.4
45°	1068.7	783.8	104.6	66.8	61.7	58.9	57.9	56.6	54.1	52.5	52.6
47.5°	1155.3	821.8	85.0	61.0	56.7	54.6	53.1	50.7	47.0	45.1	45.2
50°	1200.9	827.6	72.4	55.3	52.1	50.0	47.9	44.1	39.8	37.7	37.5
52.5°	1212.6	800.6	63.0	50.0	47.5	45.1	42.3	37.2	32.4	30.1	29.8
55°	1216.8	759.5	54.6	45.1	42.6	39.8	36.2	30.4	26.0	23.7	23.5
57.5°	1202.7	698.1	48.0	40.6	37.7	34.2	29.8	24.3	20.1	18.3	18.3
60°	1171.3	615.1	42.9	35.9	32.6	28.6	24.0	18.9	15.0	13.5	13.5
62.5°	1108.6	507.5	38.2	30.9	27.8	23.7	19.4	14.3	10.5	9.7	9.9
65°	990.4	385.0	33.4	26.5	23.7	19.6	15.1	10.2	7.1	7.1	7.4
67.5°	807.7	267.4	28.5	22.5	20.4	16.0	11.5	7.1	4.9	5.6	6.2
70°	534.7	150.0	24.3	18.6	17.4	12.7	8.6	4.8	3.9	5.3	6.4
72.5°	201.8	58.4	20.4	15.0	15.1	9.7	6.1	3.6	3.6	5.8	7.6
75°	56.2	28.6	14.6	11.0	11.8	7.1	4.4	3.1	3.5	6.6	8.9
77.5°	33.1	21.1	9.5	6.4	8.1	4.9	3.0	2.5	3.0	5.6	8.6
80°	26.6	11.2	5.6	3.3	4.4	2.8	2.0	1.5	0.8	2.1	4.4
82.5°	26.6	6.7	2.6	2.3	2.3	1.5	1.0	0.7	0.2	0.0	1.2
85°	17.9	2.8	1.6	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)