

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: P323025

Luminaire Tested: **GAN-SA1A-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2810 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

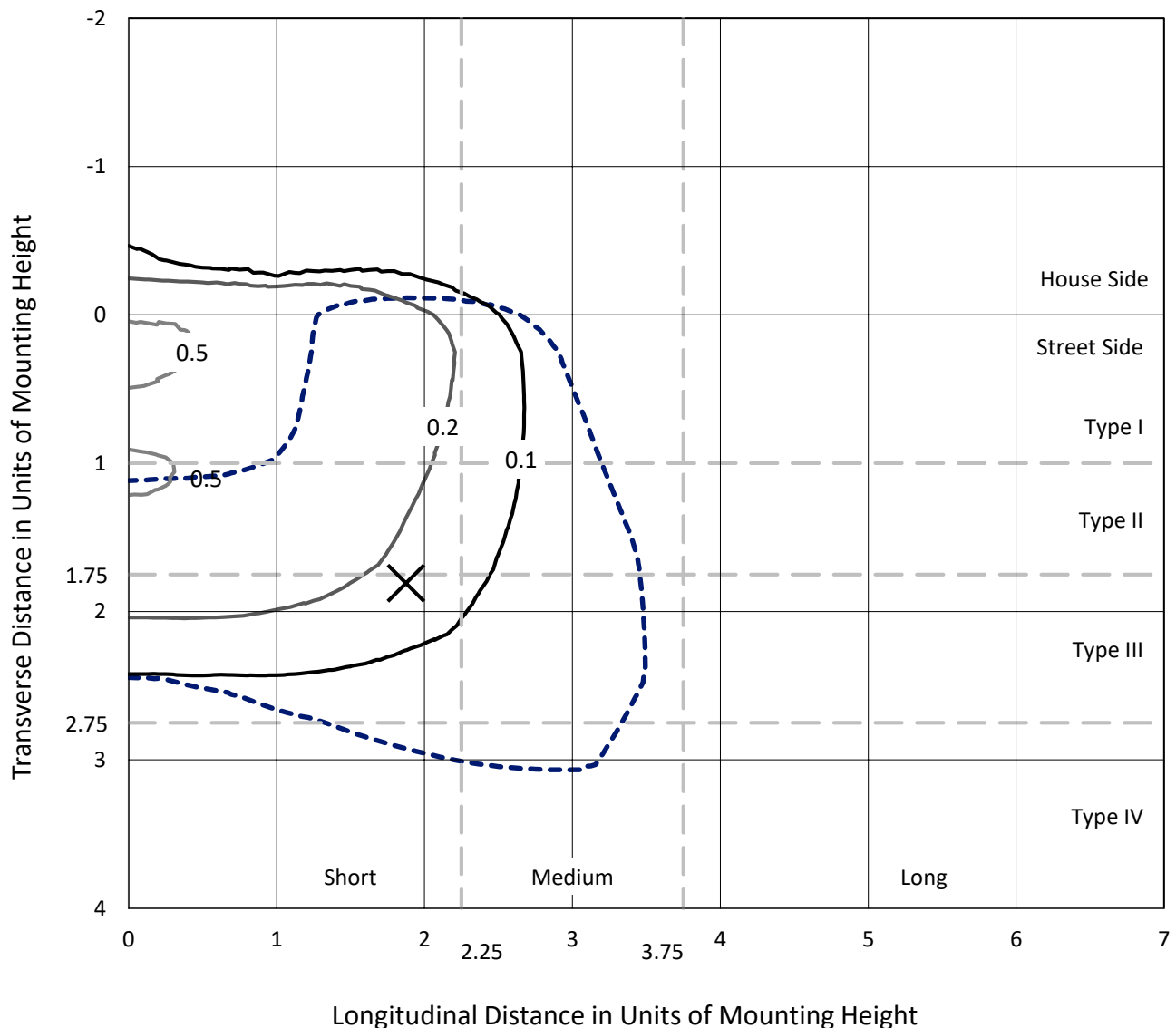
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

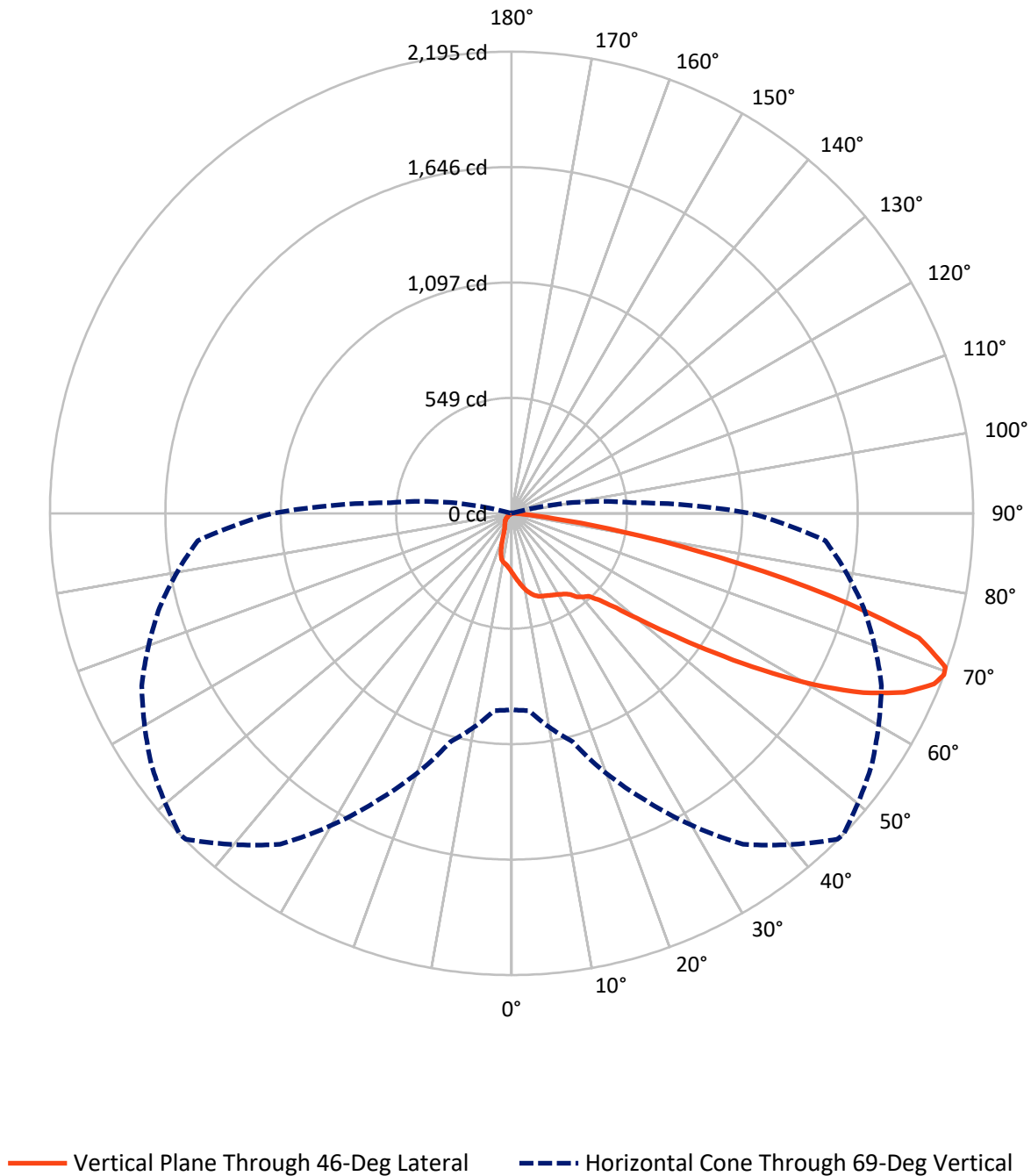
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 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	288.4	0.0	288.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2521.6	0.0	2521.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	2810.0	0.0	2810.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.0	1.0
10°-20°	85.0	3.0
20°-30°	133.7	4.8
30°-40°	191.7	6.8
40°-50°	331.4	11.8
50°-60°	654.7	23.3
60°-70°	915.0	32.6
70°-80°	442.0	15.7
80°-90°	28.4	1.0
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°	2810.0	100.0
0°-180°	2810.0	100.0

Coefficient of Utilization



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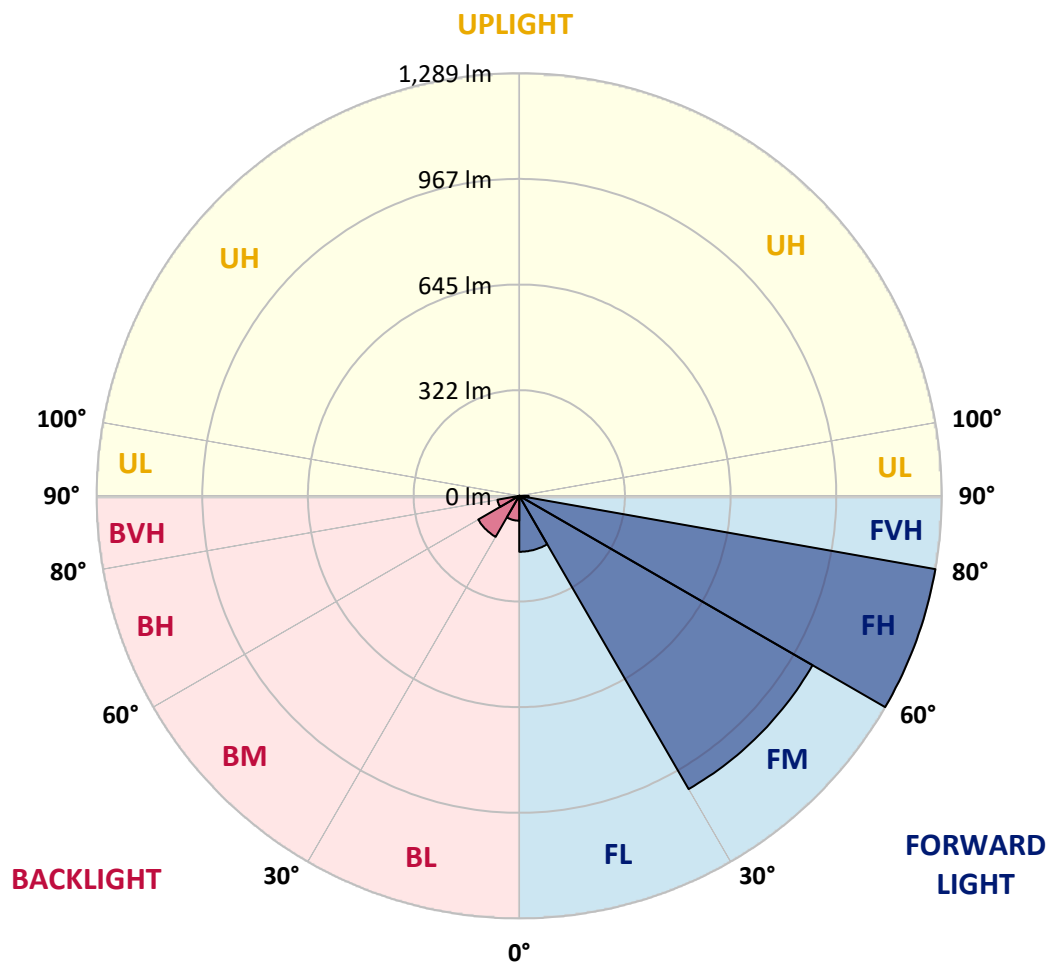
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	170.7	6.1			
FM	(30°-60°)	1033.3	36.8			
FH	(60°-80°)	1289.4	45.9			G1/1800
FVH	(80°-90°)	28.2	1.0			G1/100
BL	(0°-30°)	76.0	2.7	B0/110		
BM	(30°-60°)	144.5	5.1	B0/220		
BH	(60°-80°)	67.6	2.4	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	312.8	312.4	310.5	309.7	305.3	302.6	301.6	298.3	293.5	288.8	283.5
5°	348.3	348.2	344.8	341.5	333.1	325.2	323.7	316.1	305.4	295.4	285.4
7.5°	384.7	383.0	379.6	373.3	361.0	348.3	347.2	336.4	321.2	306.7	292.4
10°	415.5	414.5	410.0	400.4	386.0	371.7	370.2	356.9	339.8	322.0	303.7
12.5°	439.5	438.7	432.8	420.8	405.5	390.6	388.7	376.8	358.5	338.6	317.0
15°	454.1	453.7	446.5	433.7	418.7	405.8	404.1	393.7	376.7	355.9	331.5
17.5°	457.6	457.7	450.2	437.3	424.9	415.7	414.4	406.5	392.2	371.5	346.0
20°	449.9	451.5	444.8	433.6	426.0	421.1	420.0	415.3	403.3	383.8	357.6
22.5°	439.1	439.9	435.3	427.8	424.6	425.6	425.0	422.4	412.2	394.3	369.0
25°	432.5	432.5	429.8	423.4	425.6	431.2	431.4	430.8	422.8	407.2	383.0
27.5°	432.3	431.5	428.3	423.6	429.4	438.1	438.6	442.2	437.1	422.9	400.4
30°	442.8	441.9	435.2	429.0	436.4	445.7	447.0	454.8	452.3	439.9	419.8
32.5°	467.5	464.2	449.3	439.1	444.7	455.9	457.6	470.0	473.9	460.9	438.5
35°	501.2	490.8	469.3	458.4	458.9	470.6	472.2	490.4	502.1	480.1	453.0
37.5°	547.7	542.5	507.6	478.4	480.8	498.5	503.2	522.9	519.6	490.6	469.4
40°	649.7	641.6	604.5	534.5	501.7	521.2	522.7	533.2	533.5	514.5	503.7
42.5°	788.5	785.2	746.1	636.4	542.9	536.4	539.0	556.8	576.7	564.8	564.3
45°	942.3	940.6	899.1	771.5	626.3	586.0	589.3	613.2	651.2	653.9	670.6
47.5°	1066.0	1065.2	1041.4	922.4	754.0	670.2	671.3	696.6	763.5	796.6	823.3
50°	1178.8	1182.6	1163.8	1085.6	927.9	802.1	799.6	816.5	924.0	978.1	1011.3
52.5°	1335.6	1341.0	1288.1	1237.9	1110.4	965.7	963.8	981.4	1116.9	1157.4	1163.4
55°	1474.0	1464.8	1423.0	1408.5	1332.9	1167.8	1167.3	1182.9	1303.4	1320.7	1331.6
57.5°	1535.2	1531.6	1551.8	1585.0	1566.0	1406.7	1405.5	1393.7	1470.3	1472.2	1505.8
60°	1573.8	1578.1	1639.9	1742.3	1789.6	1663.7	1656.1	1583.8	1629.8	1625.7	1661.6
62.5°	1544.8	1553.3	1664.5	1835.2	1956.9	1888.1	1877.3	1758.0	1766.0	1751.9	1785.4
65°	1390.9	1404.2	1586.4	1817.6	2039.9	2063.5	2052.5	1911.7	1874.2	1851.0	1832.4
67.5°	1129.4	1137.3	1327.5	1665.2	2002.5	2168.1	2165.9	2046.5	1955.8	1834.2	1690.1
69°	933.3	941.1	1124.2	1504.7	1920.1	2190.5	2194.8	2089.7	1940.3	1732.5	1497.5
70°	790.5	798.8	969.4	1367.2	1824.6	2180.1	2187.9	2085.6	1895.8	1614.7	1328.4
72.5°	414.6	421.7	596.8	941.9	1487.5	2001.8	2025.4	1909.3	1607.0	1172.7	785.5
75°	130.3	134.4	233.1	492.4	1018.4	1556.5	1561.9	1497.7	1141.1	645.1	327.1
77.5°	49.7	48.5	77.6	181.4	514.9	980.1	1013.2	936.0	598.8	228.1	75.5
80°	26.7	26.9	40.3	75.1	220.3	503.7	531.6	453.6	212.8	71.1	17.4
82.5°	11.6	12.1	22.7	39.8	101.2	185.8	199.7	166.3	81.3	47.8	6.5
85°	2.5	2.8	10.9	21.6	41.2	52.2	54.7	53.9	51.8	37.2	2.5
87.5°	0.0	0.0	4.9	7.8	10.4	11.9	10.4	13.6	28.6	25.0	1.3
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°	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6	281.6
2.5°	281.8	279.4	275.4	270.9	267.7	264.4	261.8	260.6	259.3	258.4	259.5
5°	281.3	276.7	268.8	261.1	255.6	251.1	247.4	246.0	244.5	243.5	243.3
7.5°	285.9	279.4	267.3	256.1	247.6	241.5	236.5	234.4	232.7	231.9	231.2
10°	294.7	286.4	270.2	255.6	244.5	234.3	223.4	215.1	209.7	207.2	206.3
12.5°	306.2	295.8	275.8	258.4	242.3	222.5	199.6	179.8	167.1	162.8	160.3
15°	319.6	306.7	283.0	261.9	234.1	198.0	159.2	133.3	121.5	119.1	116.5
17.5°	332.5	318.3	291.7	262.6	216.2	158.2	116.6	99.1	94.5	96.0	96.4
20°	343.9	329.8	300.3	256.8	183.7	118.7	90.2	85.9	87.6	90.6	91.2
22.5°	355.3	340.8	308.2	241.5	142.0	90.1	81.3	82.3	84.1	87.1	87.6
25°	369.3	354.3	315.5	213.4	106.6	76.7	77.2	78.8	80.5	83.3	83.5
27.5°	385.4	371.3	320.4	176.9	79.1	70.5	72.2	74.6	76.3	78.9	79.4
30°	406.7	393.7	322.0	139.1	66.3	65.0	65.7	68.6	71.1	73.5	73.9
32.5°	426.7	415.8	316.7	105.0	61.4	59.8	59.8	61.5	64.4	66.7	67.2
35°	445.2	438.1	299.9	76.8	57.7	55.1	53.8	53.8	55.6	57.4	58.0
37.5°	469.6	469.3	272.6	61.3	54.1	51.1	48.4	46.2	45.6	46.0	46.2
40°	511.3	511.7	237.0	54.9	51.1	47.0	42.8	39.0	35.4	34.3	34.1
42.5°	576.5	570.6	199.7	51.9	48.5	42.8	36.5	31.4	25.8	24.1	24.0
45°	680.1	644.9	160.2	49.1	45.7	38.1	30.2	23.2	18.7	17.4	17.4
47.5°	831.0	742.5	124.1	46.1	42.0	32.7	22.8	16.7	13.7	13.0	13.2
50°	986.9	838.2	95.1	42.3	37.5	27.0	16.9	12.1	10.4	10.4	10.5
52.5°	1125.3	908.3	74.2	38.2	32.0	21.2	12.8	9.5	8.7	8.6	8.7
55°	1254.8	953.5	56.8	33.5	25.4	15.8	9.7	7.8	7.2	7.0	6.9
57.5°	1379.7	975.9	42.6	27.0	18.4	11.5	7.8	6.6	6.1	5.7	5.5
60°	1462.8	957.7	29.2	19.9	12.8	8.3	6.5	5.7	5.0	4.6	4.5
62.5°	1509.7	908.0	18.8	14.4	9.1	6.2	5.1	4.7	3.8	3.4	3.4
65°	1490.8	826.1	13.2	10.3	6.6	4.6	3.8	3.8	2.8	2.2	2.1
67.5°	1321.1	697.9	10.0	7.6	4.7	3.4	2.9	3.3	1.7	1.1	1.1
69°	1136.6	578.4	8.6	6.3	4.0	2.8	2.5	3.0	1.2	0.8	0.7
70°	987.9	498.9	7.8	5.5	3.3	2.4	2.2	2.9	1.2	0.7	0.5
72.5°	591.0	278.3	5.9	4.0	2.1	1.8	1.8	3.3	1.2	0.7	0.5
75°	238.9	98.0	4.3	2.8	1.6	1.6	2.2	4.2	1.1	0.5	0.4
77.5°	54.1	21.5	2.5	1.7	1.1	1.6	2.6	3.3	0.7	0.3	0.0
80°	13.2	5.3	1.6	1.1	0.7	1.2	2.0	1.8	0.1	0.0	0.0
82.5°	4.3	1.8	0.7	0.5	0.1	0.4	0.9	0.5	0.0	0.0	0.0
85°	1.8	1.1	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	1.2	0.4	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)