

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: P653244

Luminaire Tested: **GLAN-SA2D-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9420.9 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

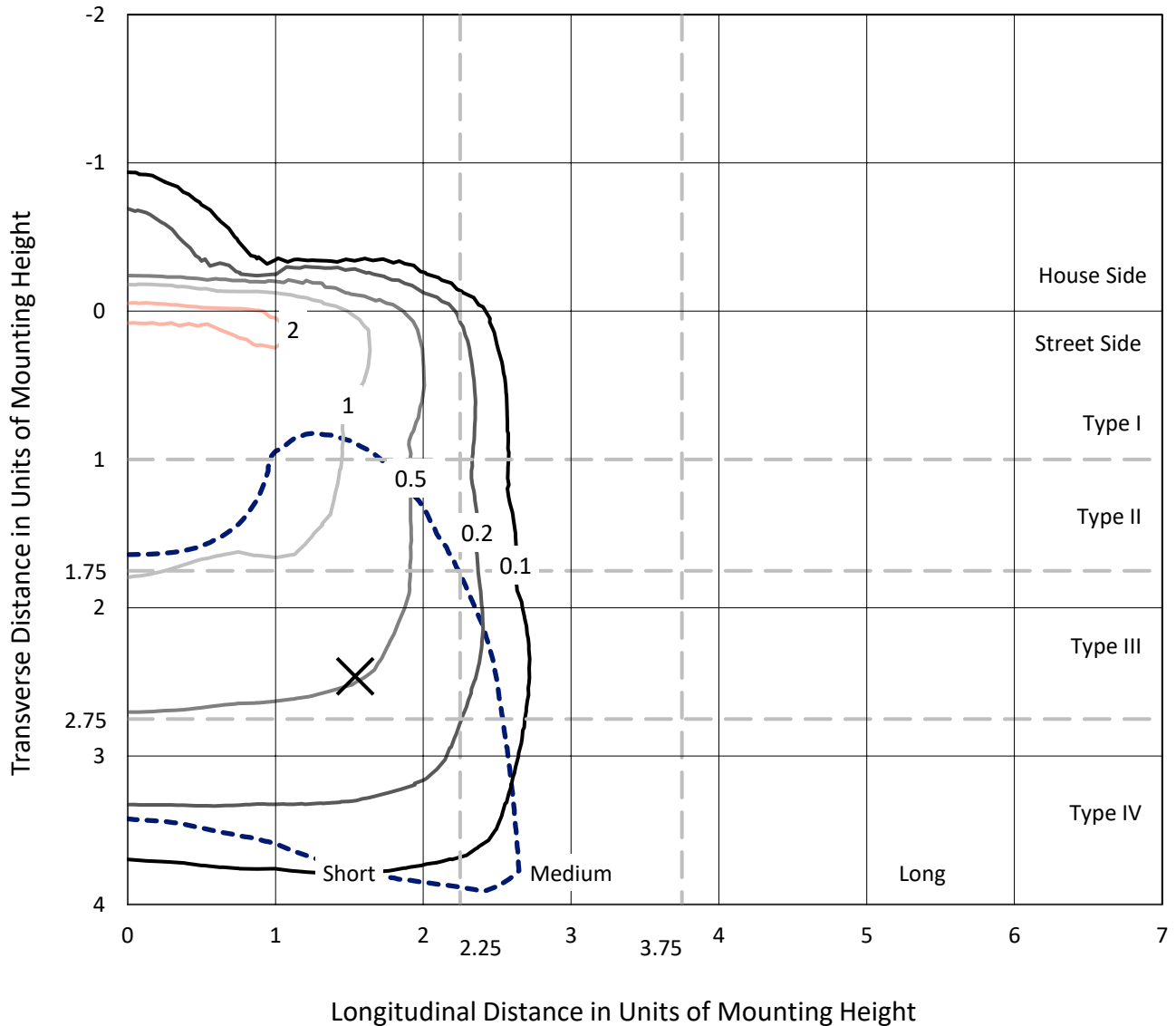
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

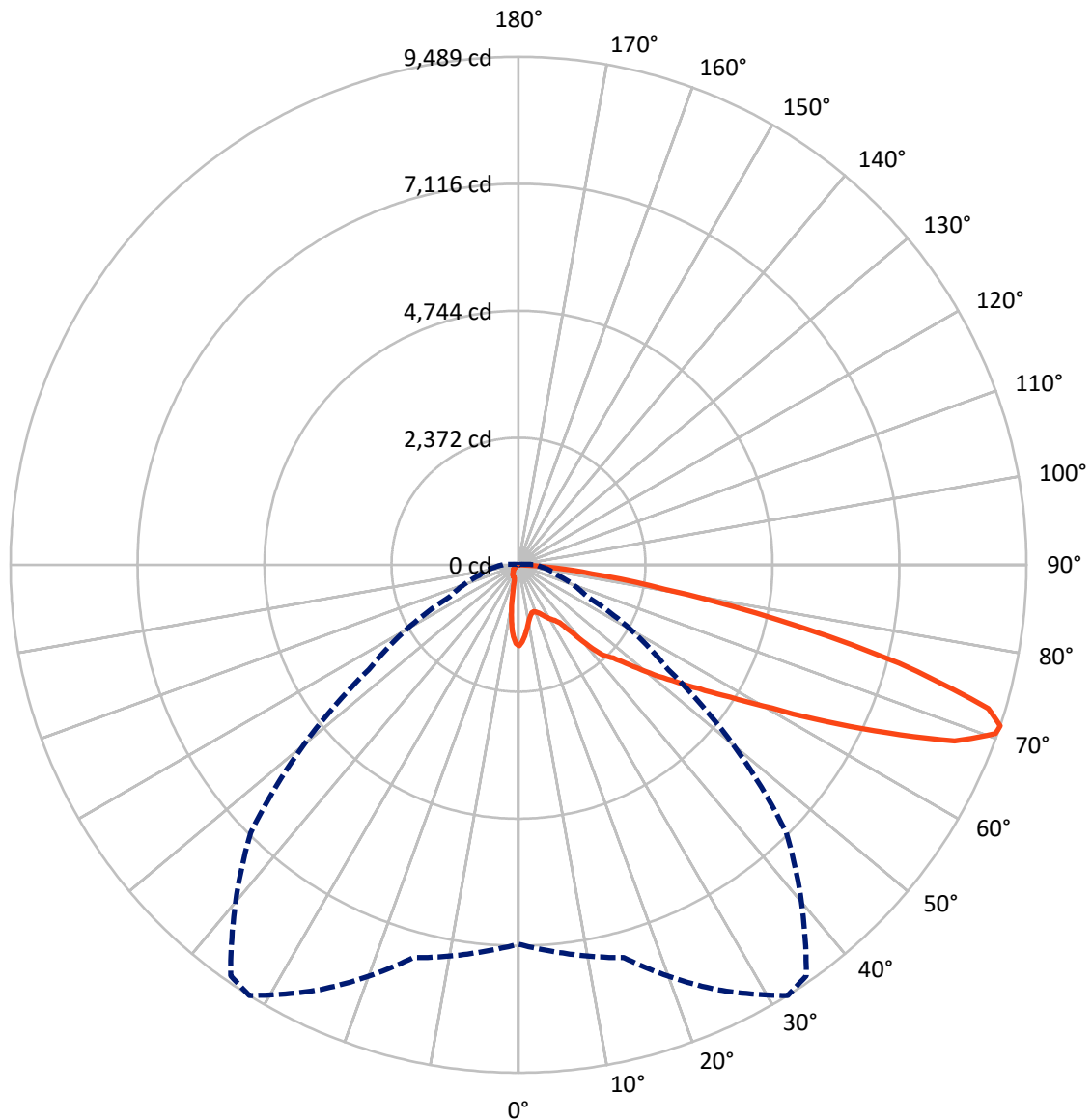
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	789.1	0.0	789.1
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	8631.8	0.0	8631.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	9420.9	0.0	9420.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	1.3
10°-20°	267.4	2.8
20°-30°	415.9	4.4
30°-40°	693.0	7.4
40°-50°	1289.0	13.7
50°-60°	2069.5	22.0
60°-70°	2783.6	29.5
70°-80°	1651.6	17.5
80°-90°	127.7	1.4
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°	9420.9	100.0
0°-180°	9420.9	100.0

Coefficient of Utilization



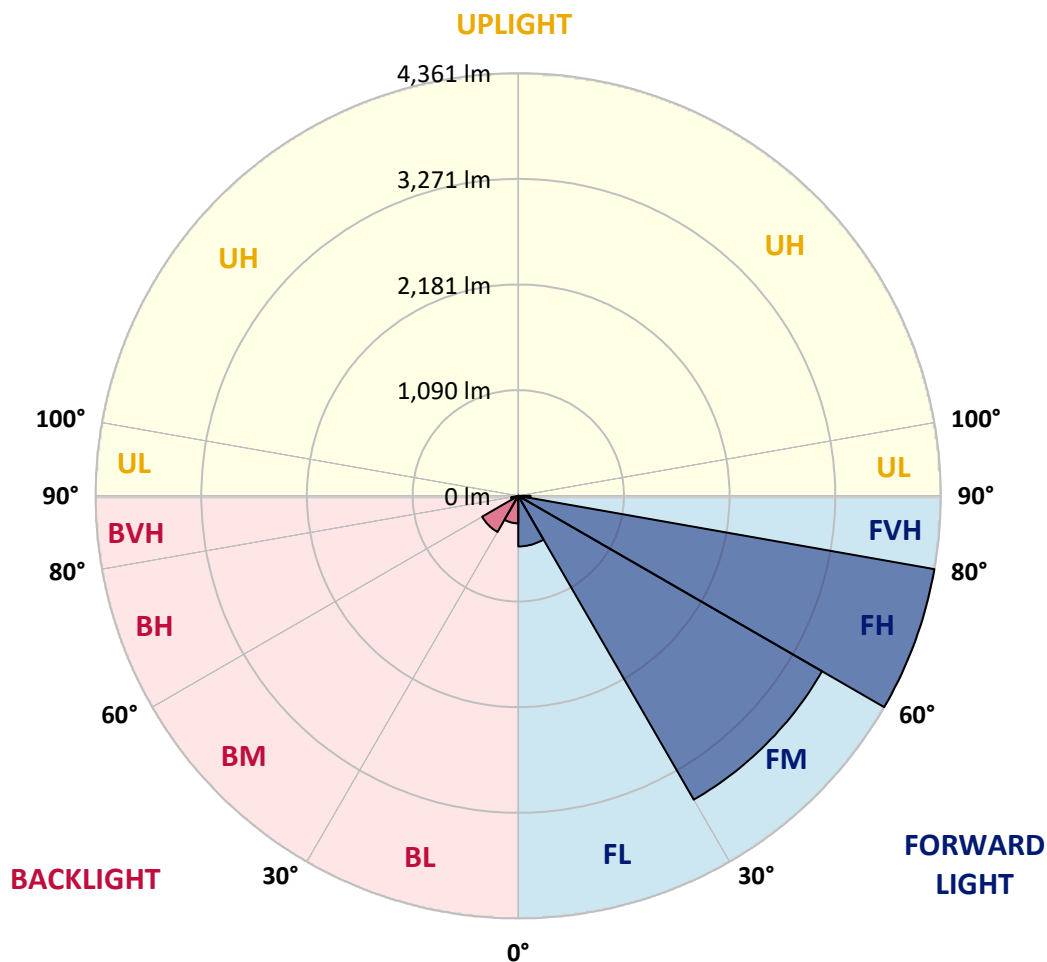
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	522.2	5.5			
FM (30°-60°)	3621.0	38.4			
FH (60°-80°)	4361.4	46.3			G2/5000
FVH (80°-90°)	127.2	1.3			G2/225
BL (0°-30°)	284.3	3.0	B1/500		
BM (30°-60°)	430.5	4.6	B1/1000		
BH (60°-80°)	73.8	0.8	B0/110		G0/110
BVH (80°-90°)	0.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1405.1	1419.6	1417.4	1422.5	1434.7	1439.8	1453.6	1468.7	1489.7	1504.2	1513.5
5°	1258.3	1269.2	1270.6	1295.9	1308.2	1322.0	1362.4	1406.6	1455.7	1494.8	1520.8
7.5°	1101.4	1107.2	1118.7	1152.0	1183.1	1196.8	1258.3	1334.9	1412.4	1485.4	1532.4
10°	971.9	978.4	999.4	1034.9	1063.8	1081.9	1167.2	1263.4	1371.8	1480.3	1549.0
12.5°	898.2	901.8	909.7	941.6	978.4	997.9	1089.8	1199.7	1339.3	1482.5	1577.2
15°	893.1	891.6	882.3	895.2	928.5	948.8	1038.5	1156.4	1310.4	1489.7	1610.5
17.5°	919.9	916.3	893.8	893.8	921.3	938.0	1016.8	1133.2	1295.9	1506.3	1657.5
20°	961.1	955.3	918.5	915.5	942.3	959.7	1029.8	1134.7	1298.8	1537.4	1720.4
22.5°	1013.2	1006.7	950.9	952.4	981.4	998.7	1067.4	1160.7	1316.8	1575.8	1787.6
25°	1081.1	1073.9	1008.1	1005.2	1035.6	1050.7	1123.1	1206.9	1342.2	1623.5	1875.9
27.5°	1171.5	1156.4	1077.5	1073.2	1105.7	1125.3	1190.4	1269.2	1387.1	1689.3	1994.5
30°	1246.0	1229.4	1154.2	1142.6	1177.3	1192.5	1259.7	1353.0	1475.3	1804.3	2158.7
32.5°	1343.7	1319.0	1230.8	1200.4	1237.4	1256.9	1360.2	1509.3	1606.1	1925.8	2353.9
35°	1563.5	1548.3	1440.5	1334.2	1332.1	1356.6	1508.5	1666.9	1740.6	2115.3	2620.1
37.5°	1878.0	1867.2	1753.0	1610.5	1569.2	1557.7	1688.6	1840.4	1955.4	2375.6	2929.5
40°	2243.3	2218.0	2113.1	1992.3	1938.8	1904.8	1901.2	2098.6	2236.1	2729.2	3252.1
42.5°	2505.0	2458.7	2331.5	2322.8	2311.2	2275.8	2173.1	2476.1	2598.4	3109.6	3597.0
45°	2779.8	2709.7	2520.2	2487.7	2483.3	2481.2	2583.9	2923.1	2993.2	3521.8	3951.4
47.5°	2993.2	2937.4	2782.0	2767.6	2785.6	2834.8	3126.9	3397.4	3382.9	3889.2	4248.6
50°	3277.4	3235.4	3062.6	3090.1	3183.4	3263.7	3739.5	3914.5	3703.3	4178.4	4464.8
52.5°	3612.9	3535.6	3375.0	3449.4	3592.7	3726.5	4389.6	4367.1	3928.2	4396.1	4626.1
55°	3903.7	3848.7	3793.8	3871.1	4085.2	4252.2	4976.8	4706.3	4091.6	4571.1	4696.9
57.5°	4395.4	4382.4	4325.9	4404.8	4664.4	4837.9	5502.6	4969.6	4196.5	4662.3	4613.8
60°	5122.9	5101.9	4997.1	5097.6	5436.0	5708.6	5987.1	5206.0	4220.4	4626.8	4374.4
62.5°	5997.9	5926.3	5836.6	5984.9	6449.1	6569.2	6443.4	5346.3	4131.4	4344.8	3797.3
65°	6815.0	6741.3	6743.5	7055.9	7561.3	7643.1	6975.6	5325.4	3871.1	3638.3	2800.8
67.5°	7440.6	7428.3	7516.5	8126.2	8787.1	8730.8	7451.4	5011.5	3099.5	2358.2	1488.2
70°	7472.5	7496.3	7749.4	8778.4	9449.6	9359.9	7411.0	4073.6	1932.3	1084.7	586.5
71°	7087.7	7248.2	7598.3	8758.3	9488.6	9372.2	7069.6	3411.9	1417.4	756.4	423.0
72.5°	6039.8	6124.5	6880.9	8242.6	9179.9	8931.1	6204.0	2391.5	907.6	462.8	243.0
75°	3326.6	3534.8	4608.0	6466.5	7342.3	7123.9	4043.2	1136.1	452.7	253.1	100.5
77.5°	1583.7	1543.2	2248.3	3845.8	4978.2	4966.7	2037.2	504.8	264.0	171.4	50.6
80°	452.7	509.1	860.6	1828.2	2763.9	2794.3	782.5	243.7	183.0	133.8	26.1
82.5°	136.7	139.6	316.0	808.5	1374.7	1295.9	293.6	124.4	131.6	106.3	15.2
85°	23.9	29.7	93.3	284.9	524.3	397.7	73.8	59.3	86.8	70.1	8.7
87.5°	1.4	2.2	31.1	32.5	46.3	26.7	13.0	8.7	18.8	18.8	5.0
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°	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1	1515.1
2.5°	1520.1	1524.4	1521.5	1515.1	1504.2	1491.2	1473.8	1459.3	1447.0	1440.5	1448.5
5°	1529.5	1535.2	1520.8	1488.2	1439.1	1385.5	1324.8	1277.8	1241.0	1229.4	1225.0
7.5°	1544.0	1547.6	1508.5	1436.2	1332.1	1205.5	1094.9	1001.5	929.3	907.6	875.7
10°	1562.7	1560.6	1486.8	1352.3	1169.3	979.2	807.8	680.5	584.3	549.6	546.7
12.5°	1591.7	1580.1	1459.3	1238.0	975.6	726.8	514.9	402.8	342.0	321.8	317.5
15°	1627.8	1600.3	1416.0	1104.2	747.1	469.4	317.5	283.5	275.5	274.1	272.7
17.5°	1670.5	1627.1	1358.8	940.1	525.0	304.4	265.4	264.7	265.4	264.0	263.2
20°	1728.3	1655.3	1290.9	745.5	347.1	256.8	253.1	253.1	253.8	253.1	253.1
22.5°	1789.8	1688.6	1206.9	569.1	261.8	243.7	243.0	244.4	245.9	245.2	245.2
25°	1865.8	1732.0	1096.3	389.8	234.3	232.9	233.5	236.5	239.3	240.1	239.3
27.5°	1975.7	1785.5	977.7	268.3	214.8	216.2	223.5	230.7	235.1	235.7	235.7
30°	2099.3	1844.8	822.9	217.7	198.9	198.9	207.6	221.3	230.7	232.1	232.9
32.5°	2258.4	1913.5	651.6	196.0	183.7	182.2	190.2	206.8	224.2	229.3	229.3
35°	2455.1	1994.5	484.5	182.2	172.8	169.2	173.6	187.3	209.7	224.2	225.6
37.5°	2685.8	2071.1	354.3	170.0	162.7	157.7	160.5	171.4	189.5	211.2	217.0
40°	2899.2	2139.1	264.7	159.8	152.6	148.9	151.1	156.2	171.4	191.7	195.3
42.5°	3132.1	2191.9	210.4	148.9	142.5	141.0	141.0	143.2	153.3	164.9	165.6
45°	3364.2	2210.7	176.4	136.0	131.6	133.0	132.4	130.9	135.2	133.8	133.8
47.5°	3529.8	2188.3	146.1	123.6	123.6	125.8	122.2	117.2	115.0	106.3	107.1
50°	3643.3	2106.5	120.0	109.2	115.0	117.9	110.7	102.7	94.7	85.4	83.2
52.5°	3690.3	1961.2	98.3	90.4	101.9	105.5	96.9	87.5	75.2	67.3	65.1
55°	3659.9	1781.9	81.7	73.8	86.0	90.4	81.7	70.9	57.1	48.4	47.0
57.5°	3526.1	1567.8	69.4	58.6	68.7	71.6	65.8	54.2	40.5	31.8	31.8
60°	3294.7	1346.5	56.4	46.3	51.4	55.7	49.9	39.0	27.5	19.5	18.1
62.5°	2825.4	1093.4	45.6	36.2	36.2	39.8	34.7	28.2	17.3	10.1	9.4
65°	2040.0	749.9	36.2	26.7	26.1	26.1	21.7	18.8	10.1	4.4	2.9
67.5°	1108.6	423.0	28.9	20.3	18.1	17.3	13.7	10.8	4.4	0.8	0.0
70°	436.1	162.7	22.5	13.7	11.6	10.8	7.2	5.0	2.9	0.0	0.0
71°	295.8	112.1	19.5	11.6	9.4	8.0	5.8	4.4	2.2	0.0	0.0
72.5°	169.2	69.4	15.2	8.7	7.2	5.8	4.4	2.9	2.2	0.0	0.0
75°	73.8	35.4	9.4	6.5	5.0	3.6	2.9	2.2	0.8	0.0	0.0
77.5°	37.6	19.5	6.5	5.0	2.9	2.2	1.4	0.8	0.0	0.0	0.0
80°	20.9	10.1	4.4	2.9	2.2	1.4	0.8	0.8	0.0	0.0	0.0
82.5°	11.6	5.8	2.2	1.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.2	3.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.4	0.0	0.0	0.0	0.0	0.8	0.8	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)