

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: P322145

Luminaire Tested: **GAN-SA1A-727-U-T3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2974 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - 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

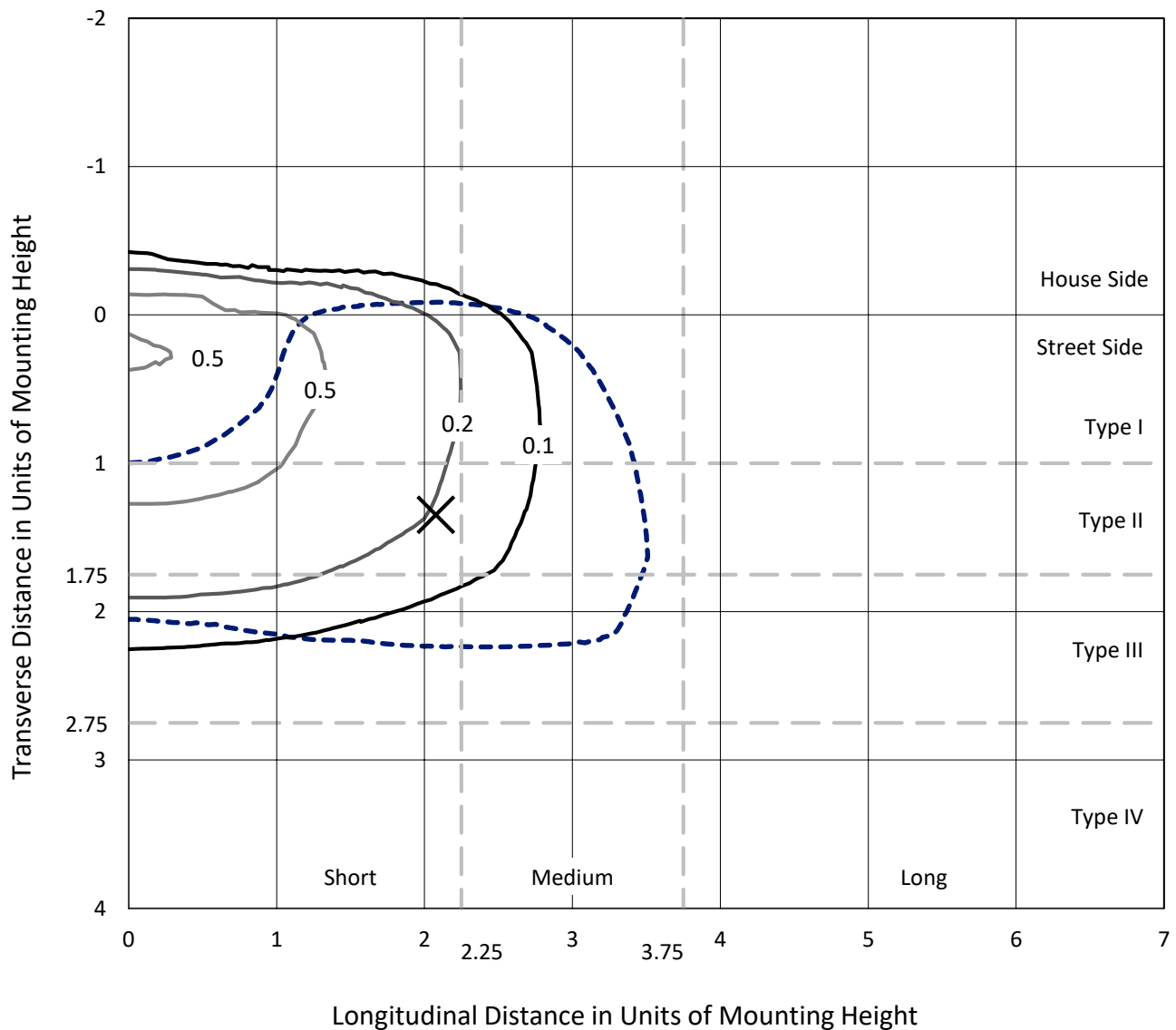


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Iso-Footcandle Lines of Horizontal Illumination

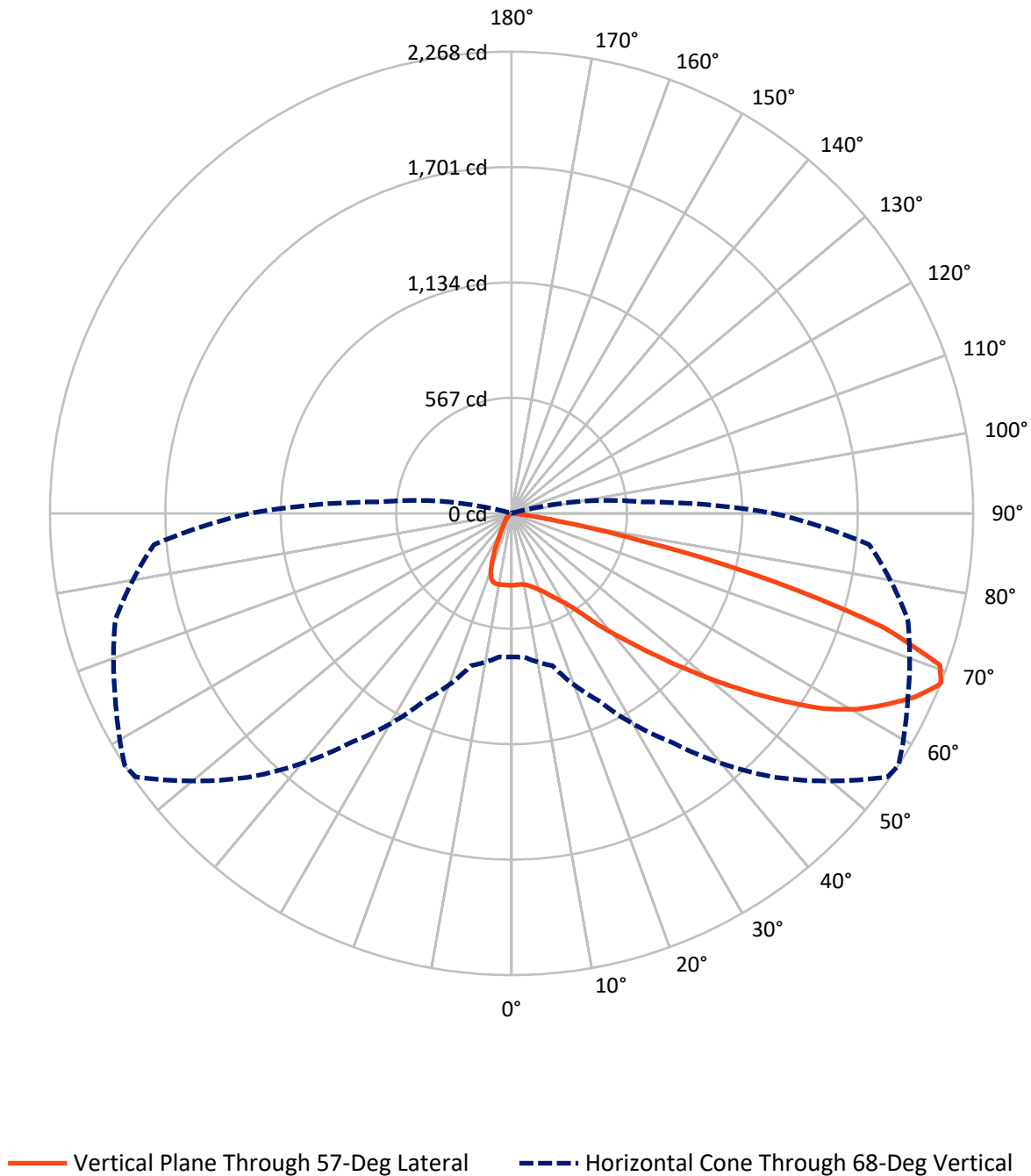
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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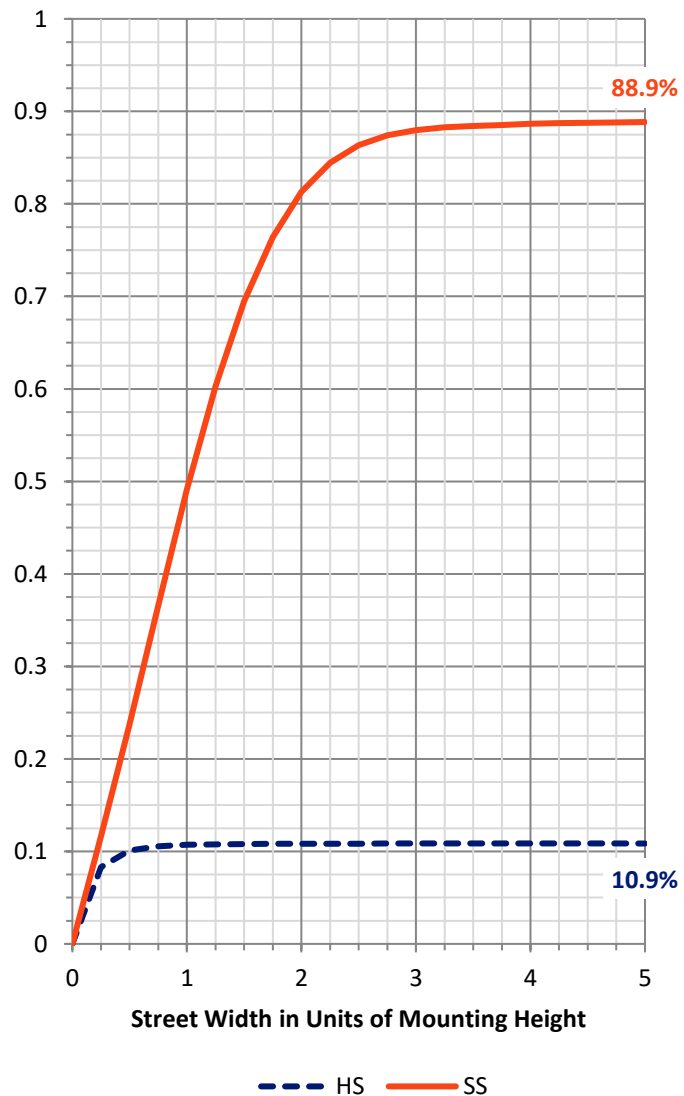
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	326.1	0.0	326.1
	% Fixture	11.0	0.0	11.0
Street Side	Lumens	2647.9	0.0	2647.9
	% Fixture	89.0	0.0	89.0
Total	Lumens	2974.0	0.0	2974.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.1	1.1
10°-20°	91.6	3.1
20°-30°	158.1	5.3
30°-40°	272.9	9.2
40°-50°	466.7	15.7
50°-60°	746.8	25.1
60°-70°	862.8	29.0
70°-80°	329.7	11.1
80°-90°	12.4	0.4
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°	2974.0	100.0
0°-180°	2974.0	100.0

Coefficient of Utilization



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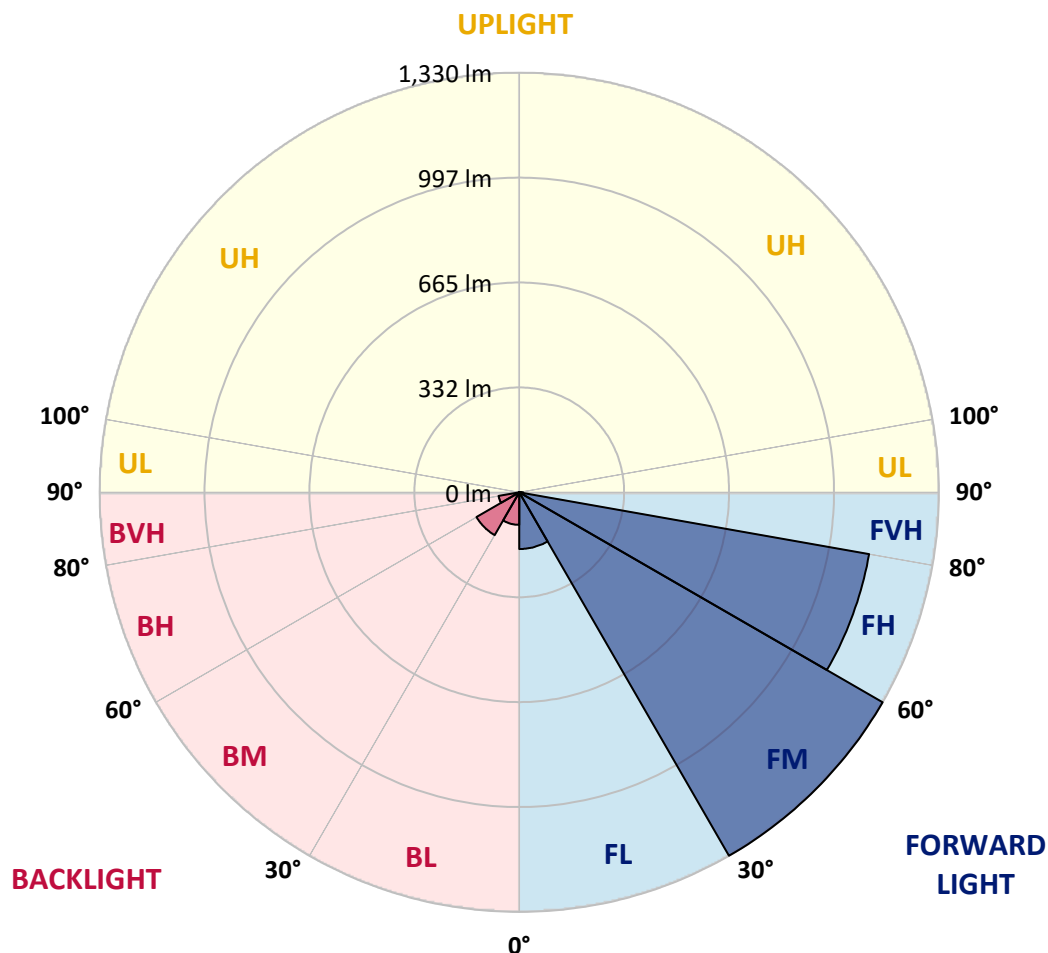
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.7	6.0			
FM	(30°-60°)	1330.0	44.7			
FH	(60°-80°)	1126.1	37.9			G1/1800
FVH	(80°-90°)	12.1	0.4			G1/100
BL	(0°-30°)	103.1	3.5	B0/110		
BM	(30°-60°)	156.4	5.3	B0/220		
BH	(60°-80°)	66.4	2.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4
2.5°	345.1	346.6	347.8	348.5	349.3	351.1	351.7	352.5	353.0	353.0	354.0
5°	331.5	333.1	335.5	337.5	341.4	346.5	350.2	351.6	354.1	356.3	357.6
7.5°	318.8	320.8	323.6	328.2	335.0	343.1	350.7	352.7	357.6	362.4	364.8
10°	310.6	312.2	315.8	322.5	331.3	342.7	353.4	355.8	364.2	372.2	376.7
12.5°	307.8	309.2	313.0	320.5	331.5	344.8	359.6	363.1	375.5	387.1	393.5
15°	311.9	312.2	316.3	323.3	334.1	350.0	369.8	374.1	389.7	404.9	412.7
17.5°	327.7	326.4	328.5	331.6	340.2	356.9	380.7	387.0	407.8	425.7	433.1
20°	367.0	367.0	362.2	353.8	354.0	367.6	395.3	402.5	427.9	448.6	455.3
22.5°	434.4	433.1	423.6	402.9	383.9	386.0	413.2	422.4	452.1	474.2	476.4
25°	515.4	513.8	499.1	470.0	437.1	415.8	437.3	448.0	480.9	500.5	495.8
27.5°	601.2	599.9	585.3	549.1	502.3	463.4	466.2	476.3	510.3	529.6	514.8
30°	684.3	684.7	670.2	633.1	580.1	524.0	502.7	508.6	538.9	558.4	537.3
32.5°	763.3	763.9	751.4	709.9	660.4	594.4	553.4	551.8	572.1	591.3	567.1
35°	833.8	835.2	826.6	794.4	741.9	672.9	619.0	615.4	619.2	641.0	612.8
37.5°	901.7	902.5	896.1	868.9	825.0	759.1	702.0	696.8	688.6	705.4	673.2
40°	976.1	974.0	966.5	941.9	904.2	854.3	791.2	782.2	768.0	782.9	752.5
42.5°	1045.3	1042.9	1044.1	1016.3	984.5	952.2	895.1	879.6	871.3	888.5	849.8
45°	1131.7	1130.5	1134.7	1110.5	1084.8	1061.3	1014.2	997.3	993.7	1013.8	967.5
47.5°	1217.1	1220.2	1233.3	1223.0	1212.6	1191.9	1140.3	1132.7	1135.0	1159.3	1091.7
50°	1288.3	1291.9	1327.8	1339.6	1354.6	1342.5	1290.8	1286.2	1295.0	1316.9	1225.3
52.5°	1339.7	1347.2	1391.8	1446.2	1501.0	1509.2	1457.6	1453.4	1465.3	1468.7	1328.5
55°	1375.4	1382.1	1432.5	1532.1	1643.8	1678.9	1646.9	1630.5	1628.3	1595.0	1437.0
57.5°	1381.8	1381.1	1453.6	1587.7	1755.7	1846.4	1826.2	1810.1	1764.0	1711.7	1561.5
60°	1346.1	1350.1	1434.4	1606.9	1826.0	1973.1	1974.7	1953.8	1882.0	1825.2	1682.2
62.5°	1236.1	1252.7	1337.8	1556.4	1825.2	2024.2	2083.5	2067.6	1981.7	1918.1	1804.5
65°	1057.8	1063.7	1144.8	1383.5	1701.8	2002.8	2181.5	2175.6	2071.5	2008.4	1867.4
67.5°	772.5	759.7	844.9	1089.4	1440.8	1878.2	2251.8	2259.3	2140.9	2027.0	1800.4
68°	705.0	708.7	775.1	1016.7	1372.5	1834.2	2256.5	2267.9	2147.8	2014.9	1763.9
70°	420.2	427.5	486.7	700.0	1044.1	1585.1	2206.4	2232.4	2106.7	1890.1	1525.6
72.5°	107.3	116.0	172.0	313.3	596.4	1116.8	1862.6	1906.6	1829.1	1533.4	1029.9
75°	44.2	46.4	61.5	103.2	222.2	503.2	1227.7	1321.9	1268.0	918.0	465.5
77.5°	30.5	32.1	39.5	57.2	96.2	170.6	601.9	669.9	603.6	313.3	101.5
80°	21.9	23.2	28.3	38.1	55.3	60.9	196.2	226.8	180.1	68.8	25.2
82.5°	13.1	14.1	21.1	27.1	33.6	29.1	48.8	55.4	52.2	34.2	11.2
85°	6.5	7.6	14.2	19.4	18.1	12.2	14.9	16.6	20.5	20.8	6.0
87.5°	0.4	0.8	8.3	11.7	5.1	2.8	4.4	5.3	7.3	10.3	2.5
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°	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4	353.4
2.5°	354.4	354.5	353.5	353.1	353.4	351.7	351.0	351.3	351.3	351.7	351.0
5°	357.9	357.9	356.2	354.0	352.7	349.5	347.3	346.8	346.4	346.1	345.5
7.5°	365.5	364.6	361.7	356.8	352.5	345.5	340.2	337.4	336.0	335.4	335.0
10°	377.7	376.2	371.2	362.1	352.4	339.9	328.2	319.9	313.0	310.2	308.5
12.5°	394.2	391.9	383.6	368.4	351.4	328.4	303.0	278.7	256.1	246.8	242.2
15°	413.2	409.9	396.8	373.8	345.7	302.3	247.4	204.7	173.4	161.6	156.5
17.5°	432.4	428.2	408.4	377.2	328.4	248.5	173.5	131.1	110.1	104.5	102.5
20°	451.8	445.6	418.4	374.6	289.3	179.2	114.5	95.8	89.7	88.0	87.5
22.5°	470.2	460.7	427.4	364.8	229.1	120.2	90.6	84.7	82.7	81.7	81.4
25°	486.3	472.9	435.2	334.4	162.1	90.8	81.6	79.6	77.1	75.2	75.4
27.5°	501.3	485.2	440.0	284.3	108.1	77.6	75.5	72.8	68.2	65.5	65.5
30°	519.5	501.5	443.5	218.8	79.6	68.6	66.9	62.9	56.5	53.0	53.0
32.5°	546.7	526.2	441.3	153.6	66.0	60.3	56.4	50.8	43.9	40.5	40.4
35°	588.5	564.5	425.2	100.7	58.2	52.5	46.1	39.2	33.2	30.4	30.2
37.5°	644.8	615.7	389.2	72.0	52.2	45.1	37.5	30.0	25.5	23.6	23.5
40°	717.7	675.1	337.8	58.4	46.5	38.1	29.0	23.2	20.1	18.7	18.8
42.5°	805.4	738.8	276.0	50.3	41.1	31.4	22.6	18.3	16.3	15.3	15.0
45°	902.7	801.7	211.4	44.9	35.6	25.3	17.7	14.5	12.9	12.4	12.4
47.5°	1009.7	862.9	154.7	40.1	29.7	19.5	14.2	11.8	10.5	10.1	10.0
50°	1106.9	905.3	111.5	35.0	24.3	15.5	11.5	9.8	9.0	8.4	8.4
52.5°	1187.9	918.7	82.1	29.5	19.7	12.4	9.6	8.4	7.6	7.2	7.2
55°	1259.2	913.2	61.0	24.3	15.9	10.1	8.2	7.2	6.5	6.0	6.0
57.5°	1327.5	895.5	45.6	19.8	12.8	8.2	6.9	6.0	5.3	5.1	5.1
60°	1383.3	866.0	33.9	16.0	10.3	6.6	5.8	4.9	4.4	3.9	3.9
62.5°	1428.6	833.3	24.9	13.2	8.2	5.2	4.5	4.1	3.2	2.8	2.8
65°	1428.9	779.2	18.7	11.0	6.3	4.1	3.4	3.2	2.1	1.7	1.5
67.5°	1325.5	671.8	14.3	9.4	4.9	3.1	2.5	2.7	1.1	0.7	0.6
68°	1288.0	644.5	13.5	9.3	4.6	3.0	2.4	2.7	1.0	0.6	0.4
70°	1085.9	512.7	10.8	9.0	4.1	2.2	2.0	2.7	0.8	0.4	0.3
72.5°	694.5	297.6	8.0	7.2	3.1	1.7	1.3	2.4	0.8	0.3	0.1
75°	295.6	92.2	5.5	5.1	1.8	1.3	0.8	1.5	0.6	0.1	0.0
77.5°	62.3	20.8	3.2	3.1	1.3	0.8	0.6	0.4	0.1	0.0	0.0
80°	16.0	6.0	1.7	1.5	0.7	0.4	0.3	0.0	0.0	0.0	0.0
82.5°	5.1	2.4	1.0	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.5	1.4	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.4	0.1	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)