

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: McGRAW-EDISON

Report Number: P526057

Luminaire Tested: **GALN-SA1A-727-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2559 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

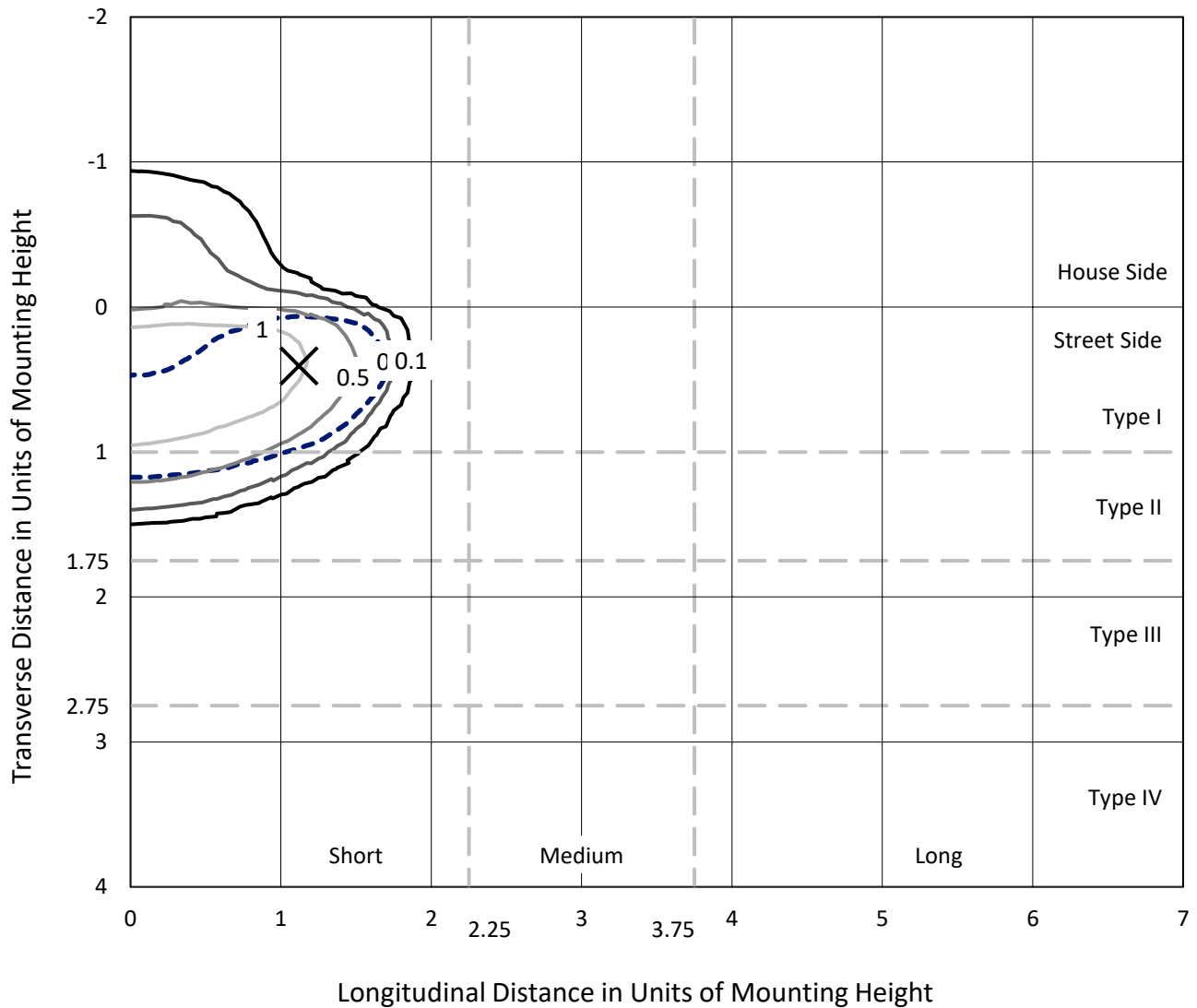
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

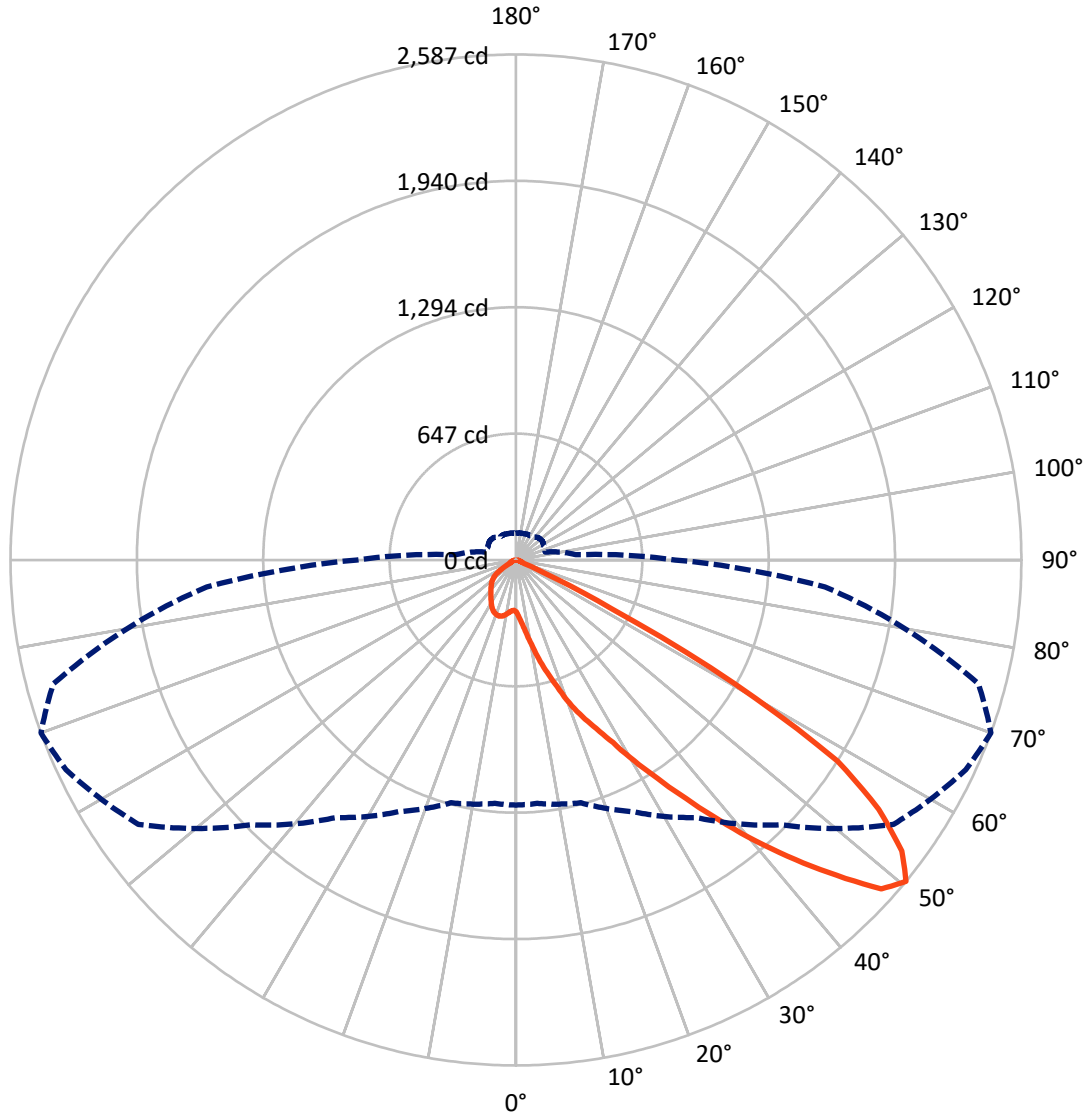
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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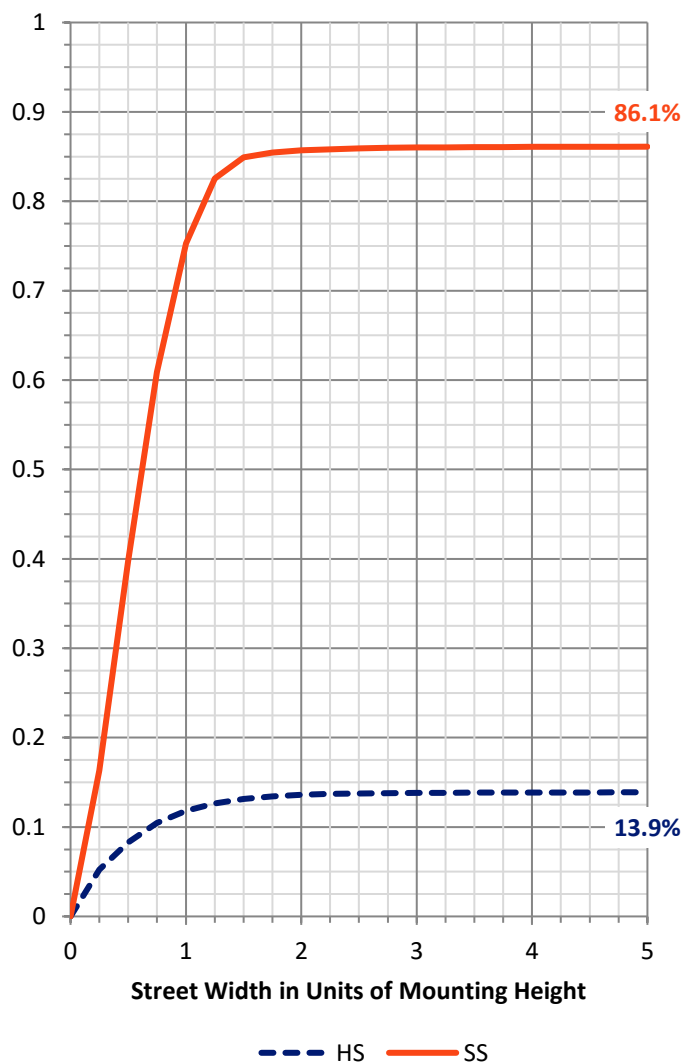
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.4	0.0	357.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	2201.6	0.0	2201.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	2559.0	0.0	2559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.5	1.3
10°-20°	149.1	5.8
20°-30°	312.8	12.2
30°-40°	539.1	21.1
40°-50°	787.9	30.8
50°-60°	613.7	24.0
60°-70°	104.0	4.1
70°-80°	14.3	0.6
80°-90°	3.7	0.1
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°	2559.0	100.0
0°-180°	2559.0	100.0

Coefficient of Utilization



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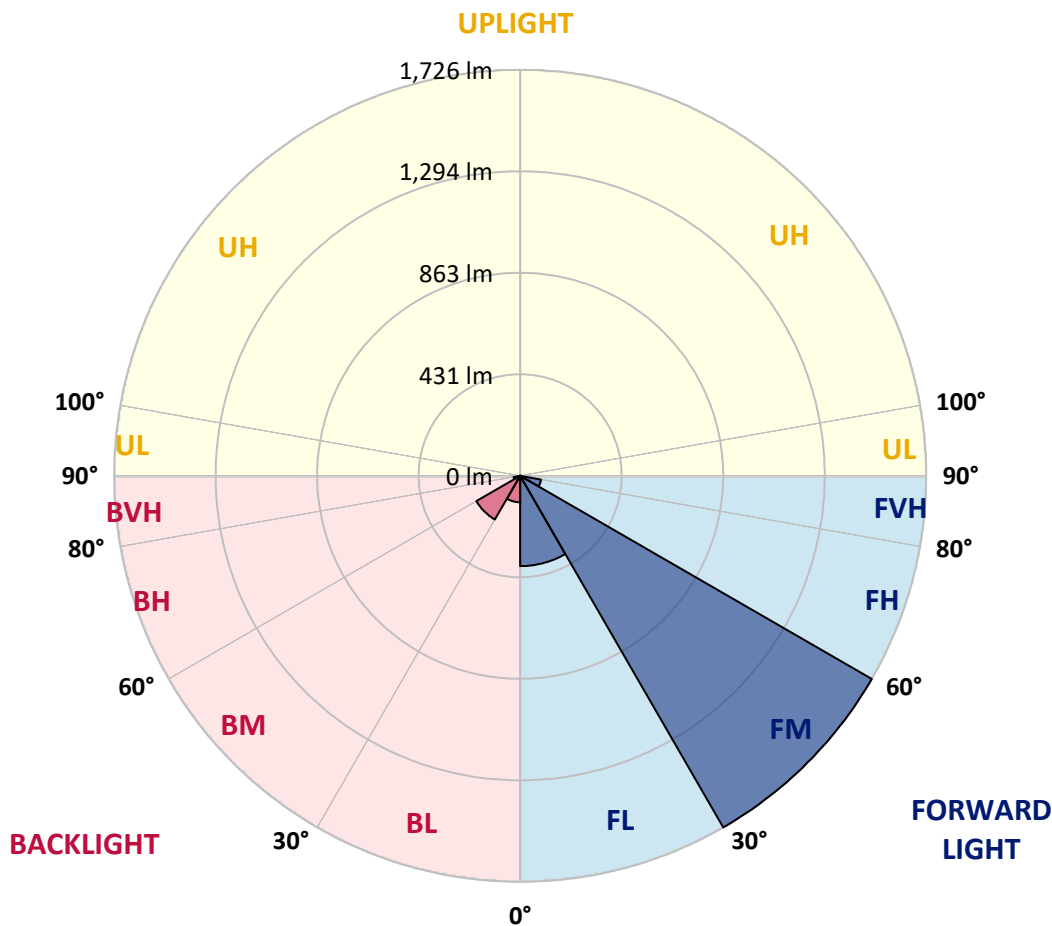
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	383.9	15.0			
FM (30°-60°)	1726.0	67.4			
FH (60°-80°)	90.0	3.5			G0/660
FVH (80°-90°)	1.7	0.1			G0/10
BL (0°-30°)	112.5	4.4	B1/500		
BM (30°-60°)	214.7	8.4	B0/220		
BH (60°-80°)	28.2	1.1	B0/110		G0/110
BVH (80°-90°)	2.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1
2.5°	347.1	344.6	339.1	329.0	324.8	314.7	308.8	297.5	290.3	282.3	273.5
5°	488.9	475.8	467.9	456.5	423.3	402.6	368.6	339.5	326.1	311.3	291.1
7.5°	635.3	626.9	616.0	591.6	568.8	525.9	467.4	403.5	376.1	350.9	310.9
10°	756.5	732.9	731.7	713.6	688.7	637.4	567.1	487.6	438.8	401.8	339.1
12.5°	841.0	819.6	829.3	827.2	804.0	756.9	675.7	570.5	519.6	462.0	368.1
15°	918.0	909.2	906.3	903.7	894.5	859.6	786.8	671.5	597.9	528.4	401.0
17.5°	993.4	970.6	981.6	983.7	982.8	951.3	883.1	767.4	680.7	598.7	435.5
20°	1060.2	1062.4	1047.6	1044.7	1042.2	1040.9	974.4	862.5	782.6	672.3	480.5
22.5°	1146.1	1131.4	1144.4	1136.0	1119.6	1109.5	1058.6	946.7	870.9	761.1	526.3
25°	1247.5	1259.3	1228.5	1225.2	1207.1	1172.2	1126.3	1040.9	955.9	843.6	576.0
27.5°	1372.4	1351.8	1343.8	1325.3	1292.5	1277.8	1223.9	1138.1	1058.6	930.2	623.9
30°	1479.7	1474.2	1434.3	1412.4	1383.8	1383.4	1308.1	1269.8	1192.4	1066.1	690.0
32.5°	1567.2	1543.2	1528.5	1513.4	1490.2	1496.5	1433.0	1412.8	1335.0	1192.4	767.8
35°	1625.7	1608.5	1599.6	1576.5	1569.8	1597.9	1571.4	1563.0	1499.1	1369.9	859.1
37.5°	1644.2	1649.7	1648.0	1619.0	1633.3	1709.4	1743.5	1721.6	1688.0	1557.1	958.0
40°	1660.6	1664.4	1656.0	1690.1	1730.9	1817.6	1940.8	1904.7	1892.0	1746.9	1095.6
42.5°	1669.9	1666.9	1666.9	1725.8	1787.7	1961.9	2131.4	2107.5	2097.8	1948.8	1254.6
45°	1629.9	1601.3	1632.0	1712.0	1836.5	2033.0	2283.7	2317.0	2303.1	2189.1	1440.6
47.5°	1480.6	1498.2	1515.5	1622.3	1777.2	2011.1	2377.1	2490.3	2516.0	2391.0	1562.6
50°	1254.6	1250.8	1286.6	1421.2	1609.3	1916.9	2359.1	2540.4	2587.1	2451.6	1588.3
52.5°	912.6	940.3	979.0	1112.8	1335.8	1672.8	2125.5	2411.2	2473.5	2377.1	1571.4
55°	531.4	500.7	587.8	700.9	911.3	1261.8	1797.0	2137.3	2252.6	2241.7	1486.5
57.5°	212.9	206.2	236.0	318.1	475.4	782.1	1306.8	1756.1	1940.8	2053.2	1306.4
60°	93.4	91.3	107.3	129.6	194.4	360.6	714.8	1092.2	1284.9	1434.7	899.1
62.5°	67.3	66.5	74.5	82.5	102.7	156.9	300.4	440.1	548.6	662.7	402.6
65°	54.3	56.4	61.8	66.1	75.7	87.1	106.0	122.4	150.2	155.7	88.8
67.5°	44.2	45.9	50.9	55.5	57.2	47.1	48.8	42.9	42.9	38.3	30.7
70°	32.4	32.8	38.7	44.2	35.3	18.9	33.2	33.2	29.9	28.6	26.1
72.5°	24.0	24.4	29.0	27.3	13.9	11.8	24.4	26.9	24.4	23.1	21.0
75°	17.7	18.1	15.1	6.3	5.9	7.6	14.3	18.5	17.7	17.3	16.0
77.5°	3.4	2.5	2.1	2.9	4.2	6.3	9.3	11.4	11.8	12.6	11.8
80°	0.4	0.4	1.3	2.5	4.6	6.7	9.7	10.9	11.4	11.8	10.9
82.5°	0.0	0.4	1.3	2.5	4.6	6.3	8.4	9.7	10.5	10.9	10.5
85°	0.0	0.4	0.8	2.1	3.8	4.6	4.2	2.9	2.5	2.9	2.1
87.5°	0.0	0.0	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1	265.1
2.5°	268.4	266.7	260.9	254.5	249.1	251.6	249.1	247.0	247.8	247.0	246.1
5°	283.2	275.6	263.0	257.5	252.9	252.4	251.2	250.8	251.2	251.2	247.4
7.5°	297.0	284.8	271.4	265.5	260.0	260.4	257.5	257.5	257.1	255.0	254.1
10°	318.1	301.7	284.4	273.9	267.2	265.9	263.0	260.0	260.0	260.0	255.8
12.5°	341.2	320.6	297.0	284.8	276.8	270.5	265.9	265.1	260.4	259.6	257.5
15°	361.4	335.3	305.5	288.6	278.5	270.1	263.0	258.3	256.2	255.0	253.3
17.5°	381.2	347.9	310.1	288.6	277.7	268.0	260.4	256.2	251.2	252.0	248.7
20°	407.7	361.4	311.3	283.2	269.7	260.4	250.3	248.2	245.3	242.8	243.6
22.5°	433.4	371.1	307.6	276.4	257.1	246.1	241.1	238.6	237.3	235.2	232.2
25°	456.5	381.6	301.7	264.2	243.6	235.6	231.0	230.6	227.6	227.6	222.1
27.5°	480.1	385.4	291.6	249.9	231.8	227.2	225.1	224.3	223.0	220.0	216.3
30°	507.0	386.7	276.8	235.2	221.3	216.3	219.2	221.3	215.8	210.4	212.0
32.5°	529.3	383.7	259.2	221.3	213.7	211.2	217.1	219.2	212.9	207.0	204.1
35°	556.2	376.6	241.9	210.4	206.2	211.2	216.3	216.3	203.6	196.5	194.8
37.5°	597.0	368.6	225.9	201.1	198.2	208.7	215.4	210.8	191.0	182.2	180.1
40°	640.8	363.5	210.4	191.9	194.0	204.5	208.3	194.0	173.8	168.3	166.6
42.5°	704.3	353.4	196.5	183.9	190.2	198.6	198.6	172.9	165.3	162.4	162.0
45°	783.4	346.3	184.3	177.1	184.7	186.8	180.1	162.0	156.5	155.7	156.1
47.5°	822.1	332.4	171.7	169.1	174.6	175.0	157.4	153.1	148.5	147.3	146.4
50°	816.2	307.6	155.3	158.6	166.2	162.0	143.5	144.3	140.1	139.7	137.6
52.5°	775.0	268.4	138.8	146.8	155.3	143.0	132.1	131.3	131.3	125.8	123.7
55°	687.1	216.3	119.1	129.2	139.3	120.3	117.4	116.5	114.4	109.4	108.1
57.5°	544.0	158.6	89.6	100.6	118.2	102.2	101.8	98.0	92.6	88.8	88.8
60°	323.5	91.3	56.4	61.4	78.3	82.9	92.1	90.5	81.2	75.3	73.6
62.5°	147.7	47.1	35.8	36.6	42.1	53.9	72.4	83.7	70.7	60.6	59.7
65°	49.6	34.9	29.5	28.2	29.0	32.4	43.3	59.3	56.4	46.7	45.0
67.5°	30.3	31.1	27.8	25.7	25.7	25.2	24.8	26.9	33.2	32.4	32.8
70°	26.1	28.6	25.7	23.1	22.3	21.0	17.7	14.7	12.6	14.7	15.6
72.5°	21.0	22.7	21.9	19.8	17.7	16.0	12.6	9.7	7.2	6.3	6.3
75°	15.6	16.8	17.7	15.1	13.5	11.4	9.3	6.3	3.8	2.5	2.5
77.5°	11.4	12.6	13.0	11.8	10.1	8.0	5.9	4.2	2.1	0.8	0.8
80°	9.7	11.4	12.6	11.8	10.5	7.6	5.5	2.9	1.7	0.4	0.4
82.5°	9.3	11.4	12.6	11.4	10.1	7.2	5.5	3.4	1.3	0.4	0.4
85°	2.1	2.9	3.8	4.6	5.5	5.5	4.2	2.5	1.3	0.4	0.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.4	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)