

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: P526191

Luminaire Tested: **GALN-SA1A-760-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-760-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2814 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

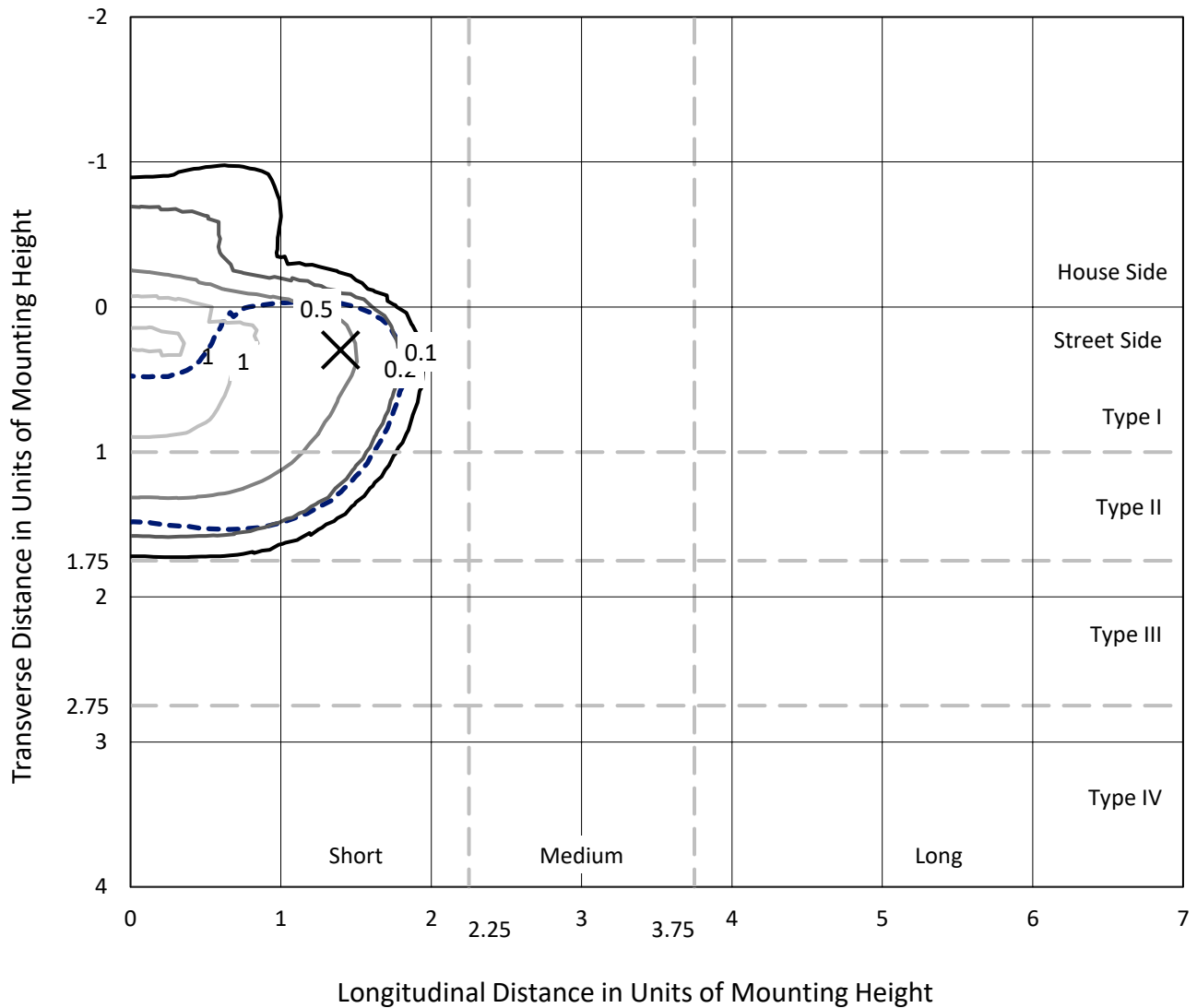
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

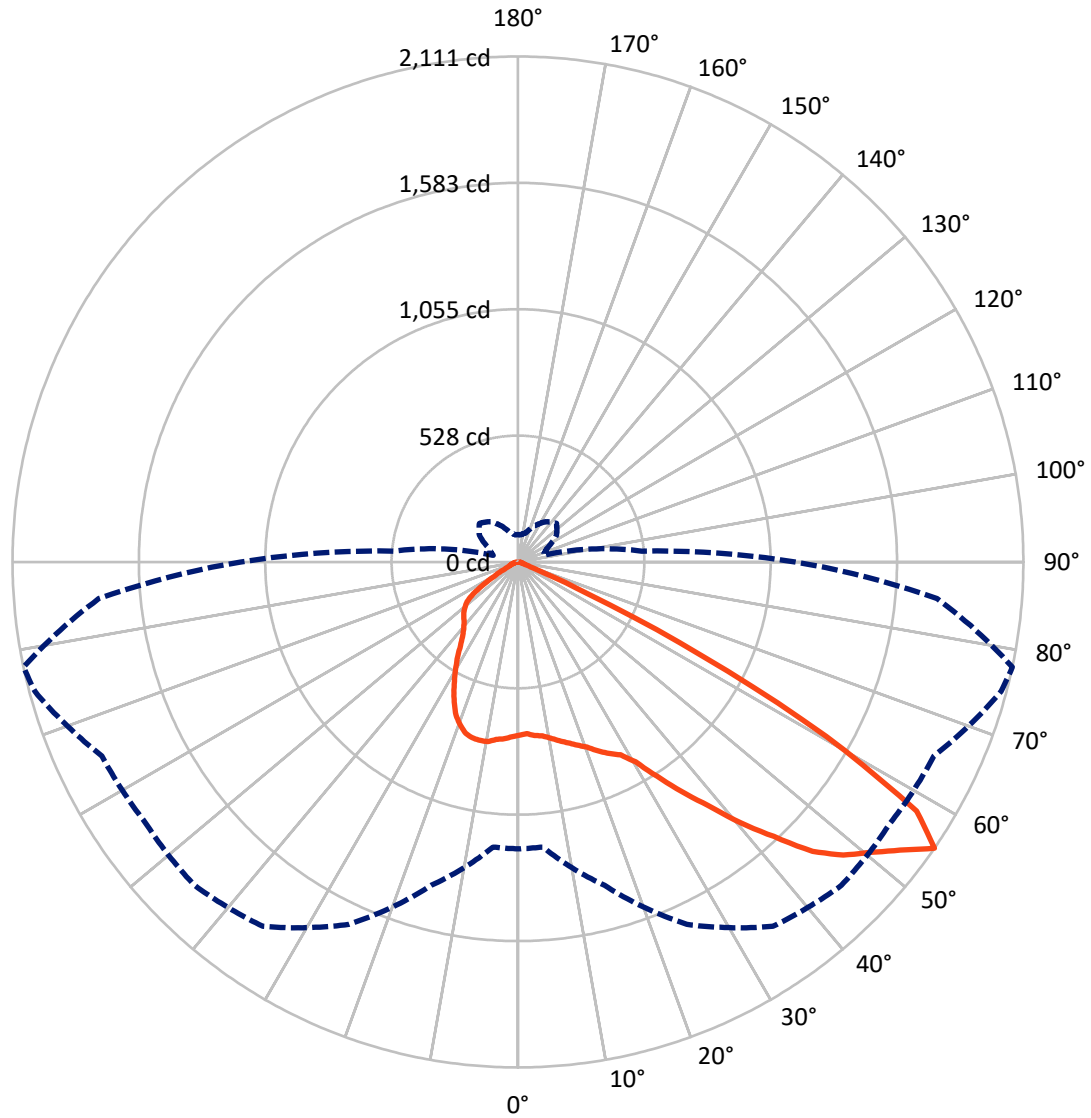
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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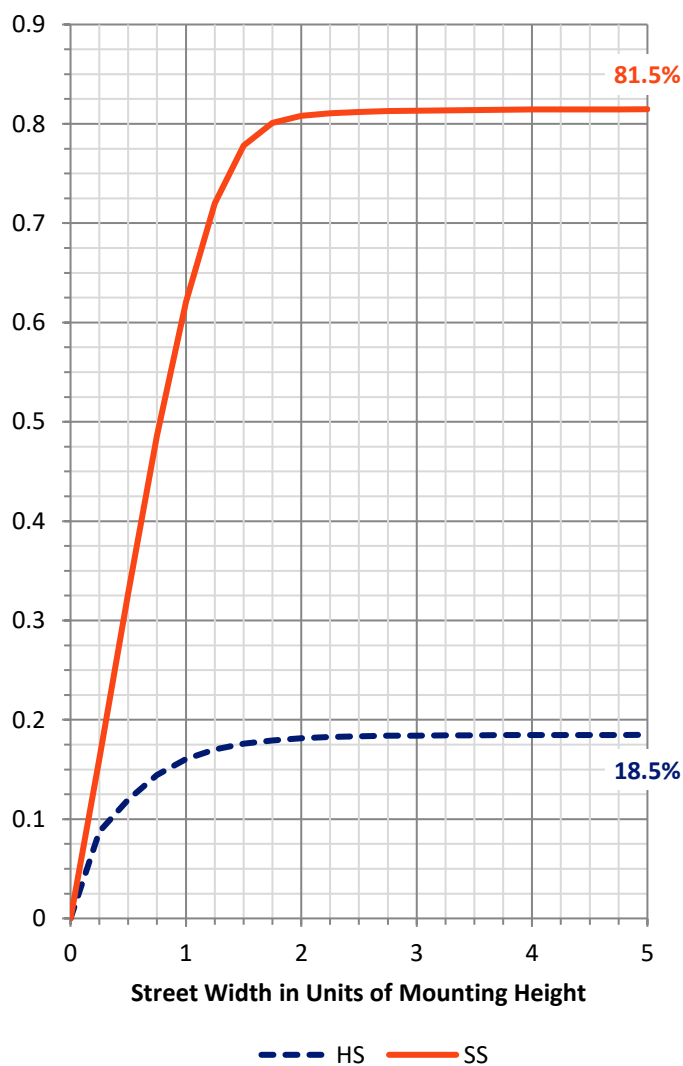
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.7	0.0	522.7
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2291.3	0.0	2291.3
	% Fixture	81.4	0.0	81.4
Total	Lumens	2814.0	0.0	2814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	2.3
10°-20°	170.7	6.1
20°-30°	299.3	10.6
30°-40°	493.4	17.5
40°-50°	718.0	25.5
50°-60°	813.6	28.9
60°-70°	232.6	8.3
70°-80°	18.1	0.6
80°-90°	3.8	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°	2814.0	100.0
0°-180°	2814.0	100.0

Coefficient of Utilization



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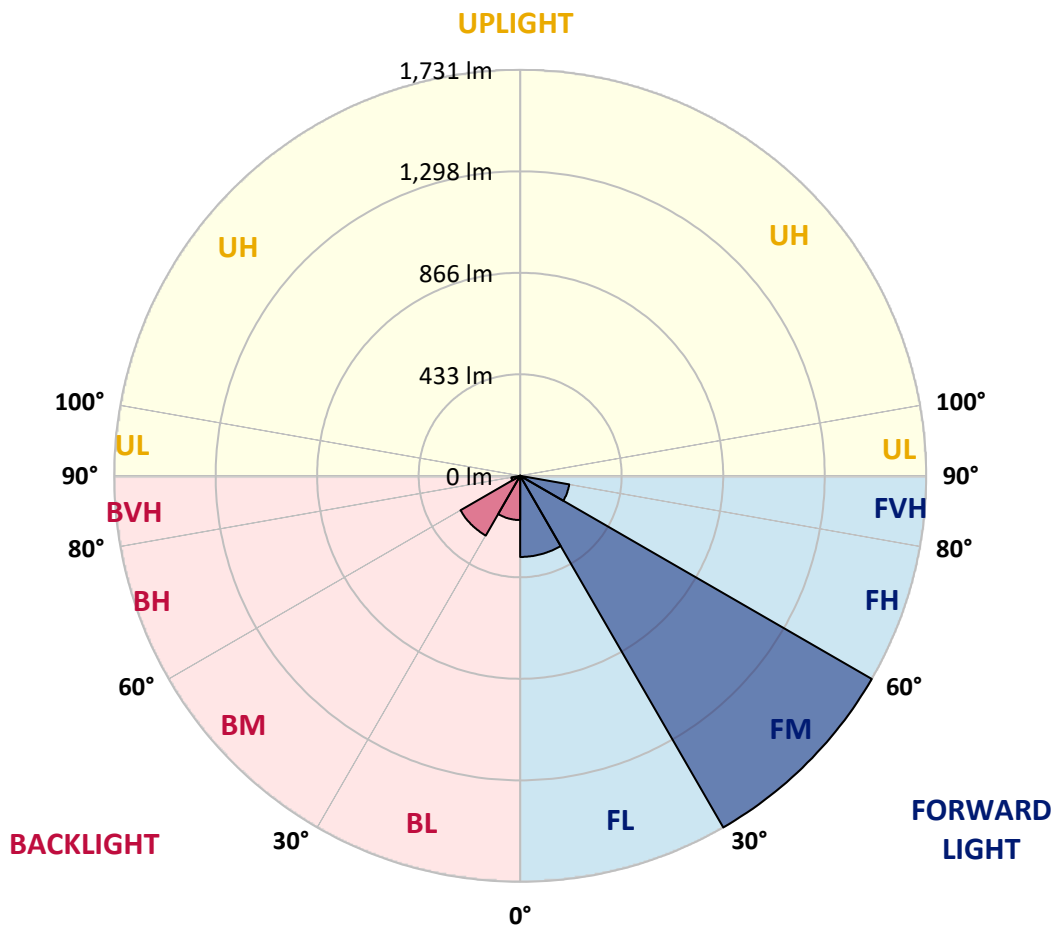
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	345.9	12.3			
FM (30°-60°)	1731.0	61.5			
FH (60°-80°)	212.5	7.6			G0/660
FVH (80°-90°)	1.8	0.1			G0/10
BL (0°-30°)	188.6	6.7	B1/500		
BM (30°-60°)	294.0	10.4	B1/1000		
BH (60°-80°)	38.2	1.4	B0/110		G0/110
BVH (80°-90°)	1.9	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5
2.5°	680.2	686.8	687.8	695.8	695.3	708.9	712.9	713.4	722.5	717.9	729.5
5°	661.1	657.6	656.1	670.2	674.2	686.3	696.3	702.4	721.0	727.5	739.6
7.5°	644.0	644.0	645.0	657.6	656.1	671.7	682.2	700.8	728.0	733.5	748.1
10°	627.4	621.3	628.9	642.0	653.0	660.1	682.2	699.8	731.5	747.6	767.8
12.5°	618.8	621.9	622.9	632.4	644.5	665.6	677.7	706.9	756.7	766.2	787.9
15°	672.7	666.6	652.0	643.5	653.5	663.6	693.8	723.5	769.8	783.4	807.5
17.5°	735.1	730.0	717.9	694.8	672.2	690.8	714.4	741.6	783.9	804.0	839.7
20°	816.6	808.5	796.4	751.2	731.5	711.4	736.6	768.8	807.0	825.1	861.8
22.5°	913.7	913.7	886.5	831.7	790.9	771.8	782.3	801.0	832.7	857.3	893.5
25°	1014.8	1011.8	987.1	930.3	861.3	838.7	850.8	863.9	872.4	886.0	910.1
27.5°	1130.5	1112.9	1081.7	1018.8	957.9	914.2	927.2	915.7	905.1	912.1	946.9
30°	1209.0	1220.1	1180.3	1119.9	1062.6	1013.8	1016.3	1006.2	957.9	968.0	988.6
32.5°	1290.5	1297.5	1275.4	1242.2	1184.8	1128.0	1107.4	1098.8	1062.6	1067.1	1047.0
35°	1358.4	1372.0	1352.4	1337.8	1321.2	1275.4	1218.5	1246.2	1187.9	1176.8	1124.5
37.5°	1420.8	1416.8	1439.9	1424.8	1421.3	1389.1	1326.7	1332.3	1293.0	1290.5	1230.1
40°	1476.6	1477.7	1509.3	1516.4	1502.3	1444.9	1354.4	1398.2	1429.9	1432.9	1355.4
42.5°	1522.9	1536.5	1563.7	1620.5	1599.4	1503.8	1383.1	1430.9	1548.6	1567.2	1474.1
45°	1563.2	1590.9	1624.6	1675.4	1663.3	1587.3	1454.5	1498.3	1675.4	1724.2	1585.8
47.5°	1565.7	1601.9	1638.6	1714.1	1729.2	1632.1	1528.5	1604.9	1776.0	1828.8	1667.3
50°	1555.6	1574.8	1648.2	1730.2	1764.4	1705.1	1632.1	1694.5	1873.6	1906.8	1708.6
52.5°	1436.4	1451.0	1598.4	1745.3	1827.8	1787.6	1769.5	1819.3	1973.2	1997.9	1747.3
55°	1197.4	1194.9	1397.7	1669.3	1857.0	1909.8	1898.8	1916.4	2088.4	2110.6	1756.9
57.5°	819.1	864.9	1039.9	1390.1	1678.4	1881.2	1892.7	1863.5	1954.1	1962.7	1531.5
60°	441.7	460.9	601.7	927.7	1277.9	1533.0	1563.2	1510.4	1503.3	1479.2	1093.3
62.5°	175.6	185.1	265.1	459.3	696.3	931.8	996.7	975.0	928.8	865.4	566.0
65°	83.5	89.6	131.8	214.8	308.9	388.4	453.3	473.4	349.2	314.4	186.7
67.5°	56.9	61.4	96.1	122.8	110.2	115.2	149.9	139.4	82.0	69.9	51.8
70°	43.3	46.3	77.0	83.5	49.3	34.7	38.7	36.2	33.7	34.2	33.7
72.5°	30.7	33.2	56.3	49.3	21.6	16.1	20.6	24.7	24.7	24.7	24.1
75°	18.6	21.1	32.7	19.1	8.6	8.6	13.1	16.6	17.6	18.1	17.1
77.5°	9.6	12.1	11.1	5.5	5.5	6.5	9.6	11.6	12.6	12.6	12.1
80°	2.0	2.0	2.0	3.0	5.5	7.0	9.6	10.6	12.1	12.1	11.1
82.5°	0.0	0.5	1.5	3.0	5.0	6.5	9.1	10.6	12.1	12.6	11.6
85°	0.0	0.5	1.0	2.0	3.5	4.0	3.5	3.0	3.0	3.0	3.0
87.5°	0.0	0.0	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0
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°	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5	723.5
2.5°	730.5	732.0	729.5	729.0	727.0	733.0	718.4	714.9	724.0	715.4	717.4
5°	740.1	743.6	739.1	731.5	720.5	703.4	688.8	669.6	660.6	654.1	653.0
7.5°	747.1	749.6	745.1	721.0	687.8	644.5	612.3	588.6	570.0	564.5	555.4
10°	775.8	776.3	753.7	700.3	635.4	578.6	529.3	493.1	474.4	462.9	457.8
12.5°	794.9	793.9	748.1	659.6	573.0	497.6	441.2	397.5	380.4	374.8	371.3
15°	819.1	813.5	735.1	617.8	492.6	411.0	360.2	330.0	328.5	325.0	328.5
17.5°	838.2	822.6	715.9	541.9	415.6	338.6	305.4	307.4	311.4	315.0	315.5
20°	869.4	837.2	672.2	475.4	344.1	290.3	289.8	298.9	308.9	312.9	317.0
22.5°	893.0	843.2	625.4	404.5	285.8	270.7	279.2	292.8	300.4	304.4	310.4
25°	901.6	826.6	563.0	333.6	257.6	261.6	274.7	283.8	293.3	297.8	295.3
27.5°	910.1	818.1	488.5	274.7	242.5	255.6	266.7	275.7	278.7	284.8	288.8
30°	930.8	788.4	421.6	237.5	235.0	251.6	259.6	262.6	270.7	274.2	274.2
32.5°	947.4	776.8	350.7	219.9	233.9	253.6	254.6	254.6	255.6	253.1	252.1
35°	981.6	737.1	287.3	209.3	233.4	254.1	256.6	248.0	224.9	215.8	213.3
37.5°	1023.8	711.4	240.5	206.8	237.0	260.1	264.1	231.9	201.7	187.2	184.6
40°	1075.2	693.3	209.8	205.8	245.0	274.2	262.1	219.4	180.1	159.0	158.0
42.5°	1135.0	676.7	189.2	205.3	255.1	288.8	260.1	208.8	158.0	143.9	145.9
45°	1182.8	667.6	175.1	201.7	258.6	297.3	261.6	190.2	148.9	139.9	140.9
47.5°	1220.1	648.5	163.5	195.7	258.1	300.4	248.0	182.6	144.4	146.9	149.4
50°	1221.1	622.9	148.9	182.6	250.6	294.8	232.4	175.6	143.4	154.0	159.0
52.5°	1207.5	586.6	133.3	164.0	232.9	275.7	218.4	172.6	138.9	137.9	143.9
55°	1159.2	518.7	107.2	132.8	196.7	227.4	205.8	167.0	125.3	113.7	114.7
57.5°	936.8	371.8	79.0	95.1	139.4	166.5	185.6	164.5	112.7	96.6	97.1
60°	580.1	210.8	57.9	64.9	86.0	101.1	150.4	152.9	100.6	81.5	80.5
62.5°	297.8	104.1	44.8	45.8	52.8	59.4	103.1	128.3	91.1	77.5	77.5
65°	99.6	51.3	39.2	35.2	35.2	36.7	62.4	89.1	77.0	64.9	64.9
67.5°	42.8	38.2	34.2	30.7	28.2	26.7	35.2	51.8	57.4	49.3	47.3
70°	33.2	32.2	29.7	25.7	22.1	20.1	20.6	26.7	32.7	31.7	30.7
72.5°	24.7	24.7	23.6	20.1	17.1	14.6	13.6	14.1	15.6	16.1	16.6
75°	17.1	17.6	17.6	15.6	12.6	10.6	9.1	7.5	6.0	5.0	4.5
77.5°	11.6	12.1	13.1	11.6	9.6	7.0	5.5	4.0	2.5	1.0	1.0
80°	10.1	11.6	12.6	11.6	10.1	7.5	5.5	3.0	1.5	0.0	0.0
82.5°	10.6	11.6	13.1	11.1	9.6	7.0	5.5	3.5	1.5	0.5	0.0
85°	2.5	2.5	3.0	3.5	4.5	5.0	4.0	2.5	1.5	0.5	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	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)