

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: P526295

Luminaire Tested: **GALN-SA1B-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526295
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-SA1B-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA 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: 2929 lumens
Efficiency: N/A
Efficacy: 66.6 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

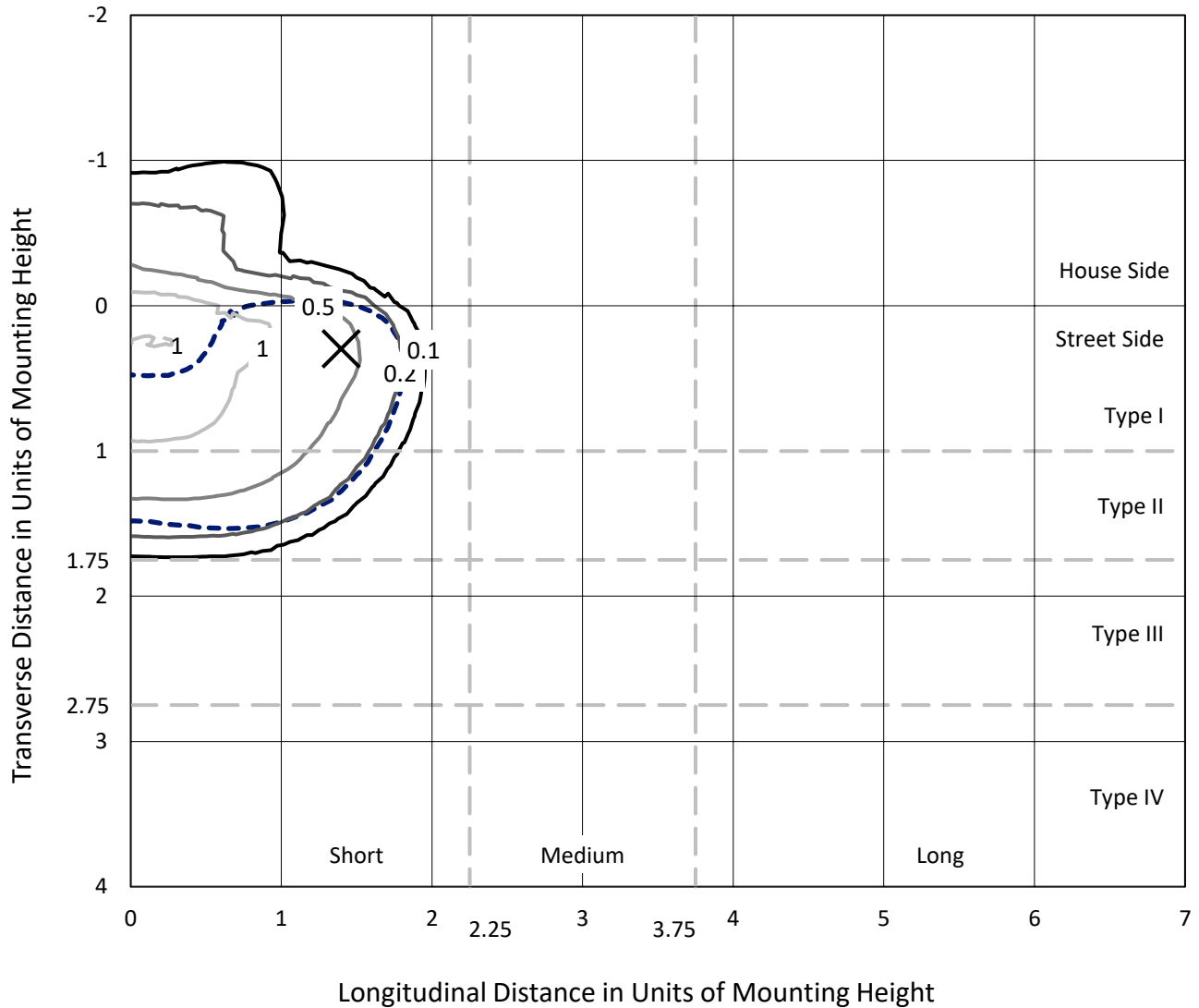
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

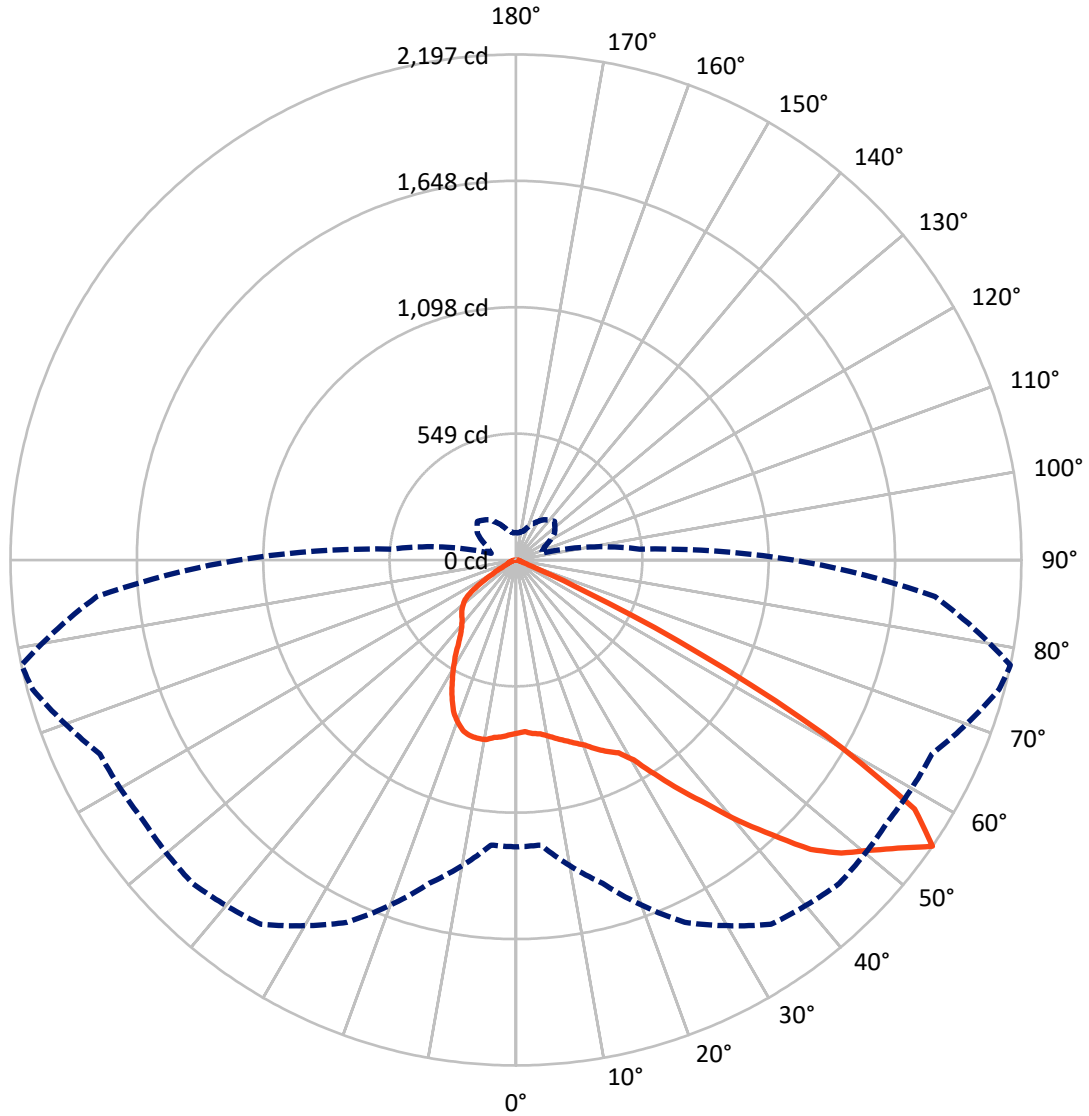
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 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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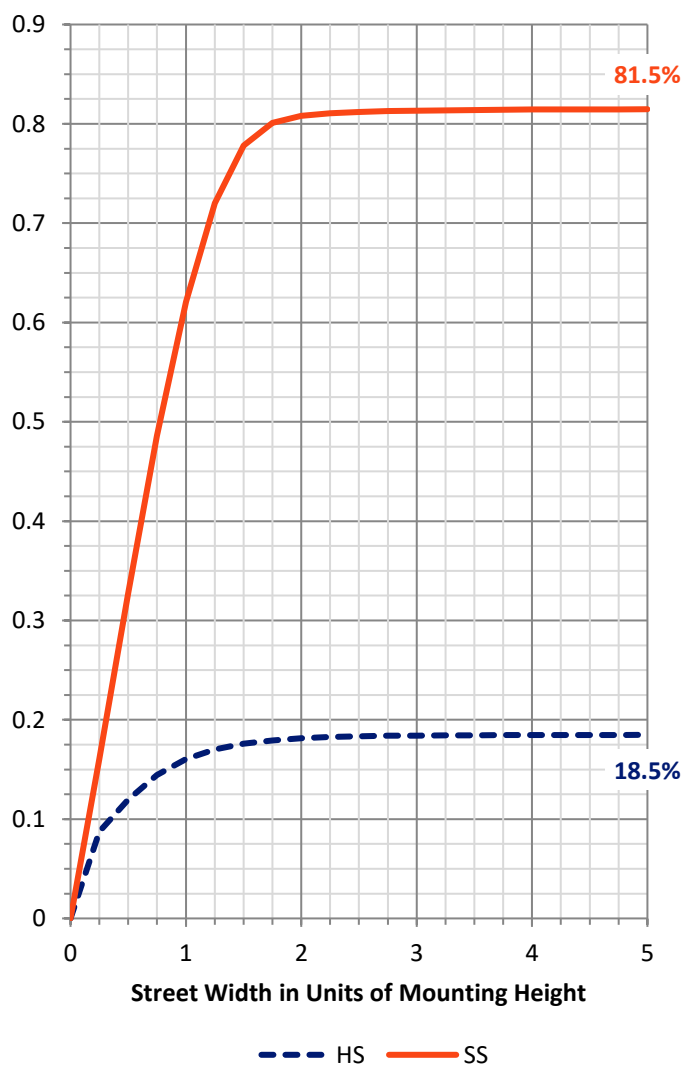
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	544.0	0.0	544.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2385.0	0.0	2385.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	2929.0	0.0	2929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	2.3
10°-20°	177.7	6.1
20°-30°	311.5	10.6
30°-40°	513.6	17.5
40°-50°	747.4	25.5
50°-60°	846.8	28.9
60°-70°	242.1	8.3
70°-80°	18.8	0.6
80°-90°	3.9	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°	2929.0	100.0
0°-180°	2929.0	100.0

Coefficient of Utilization



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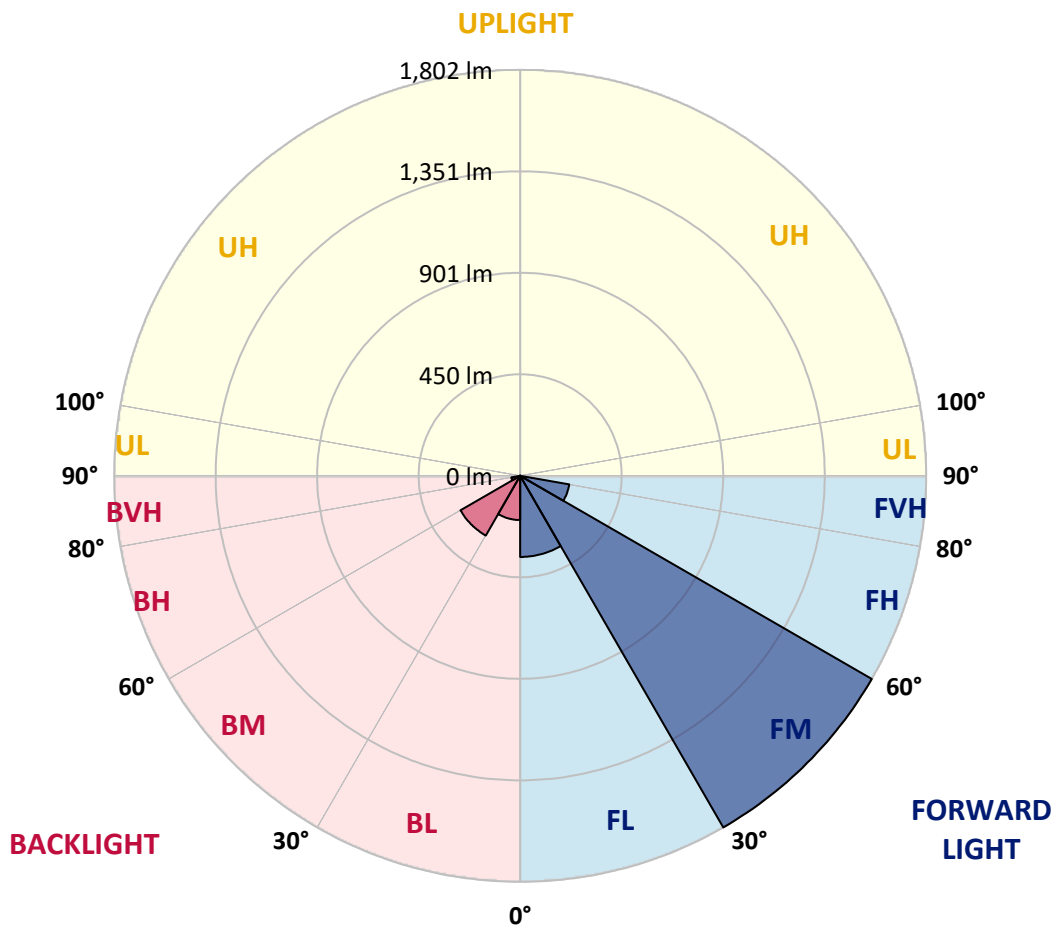
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	360.1	12.3			
FM (30°-60°)	1801.8	61.5			
FH (60°-80°)	221.2	7.6			G0/660
FVH (80°-90°)	1.9	0.1			G0/10
BL (0°-30°)	196.3	6.7	B1/500		
BM (30°-60°)	306.0	10.4	B1/1000		
BH (60°-80°)	39.7	1.4	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
2.5°	708.0	714.8	715.9	724.2	723.7	737.9	742.1	742.6	752.0	747.3	759.3
5°	688.1	684.4	682.9	697.5	701.7	714.3	724.8	731.1	750.4	757.2	769.8
7.5°	670.3	670.3	671.4	684.4	682.9	699.1	710.1	729.5	757.8	763.5	778.7
10°	653.0	646.7	654.6	668.2	679.7	687.1	710.1	728.4	761.4	778.2	799.1
12.5°	644.1	647.3	648.3	658.3	670.8	692.8	705.4	735.8	787.6	797.6	820.1
15°	700.2	693.9	678.7	669.8	680.3	690.7	722.2	753.0	801.2	815.4	840.5
17.5°	765.1	759.9	747.3	723.2	699.6	719.0	743.6	771.9	815.9	836.8	874.0
20°	849.9	841.5	829.0	781.8	761.4	740.5	766.7	800.2	840.0	858.8	897.1
22.5°	951.0	951.0	922.7	865.6	823.2	803.3	814.3	833.7	866.7	892.3	930.1
25°	1056.3	1053.1	1027.5	968.3	896.5	873.0	885.5	899.2	908.1	922.2	947.3
27.5°	1176.7	1158.4	1125.9	1060.4	997.1	951.5	965.1	953.1	942.1	949.4	985.6
30°	1258.4	1269.9	1228.5	1165.7	1106.0	1055.2	1057.8	1047.4	997.1	1007.6	1029.0
32.5°	1343.2	1350.6	1327.5	1293.0	1233.3	1174.1	1152.6	1143.7	1106.0	1110.7	1089.8
35°	1413.9	1428.1	1407.6	1392.5	1375.2	1327.5	1268.3	1297.1	1236.4	1224.9	1170.4
37.5°	1478.9	1474.7	1498.8	1483.1	1479.4	1445.9	1380.9	1386.7	1345.9	1343.2	1280.4
40°	1537.0	1538.0	1571.0	1578.4	1563.7	1504.0	1409.7	1455.3	1488.3	1491.4	1410.8
42.5°	1585.2	1599.3	1627.6	1686.8	1664.8	1565.3	1439.6	1489.3	1611.9	1631.3	1534.4
45°	1627.1	1655.9	1691.0	1743.8	1731.3	1652.2	1514.0	1559.5	1743.8	1794.6	1650.6
47.5°	1629.7	1667.4	1705.6	1784.2	1799.9	1698.8	1590.9	1670.5	1848.6	1903.6	1735.5
50°	1619.2	1639.1	1715.6	1800.9	1836.5	1774.7	1698.8	1763.7	1950.2	1984.7	1778.4
52.5°	1495.1	1510.3	1663.7	1816.6	1902.5	1860.6	1841.8	1893.6	2053.9	2079.5	1818.7
55°	1246.4	1243.7	1454.8	1737.6	1932.9	1987.9	1976.4	1994.7	2173.8	2196.8	1828.7
57.5°	852.5	900.2	1082.4	1446.9	1747.0	1958.0	1970.1	1939.7	2034.0	2042.9	1594.1
60°	459.8	479.7	626.3	965.7	1330.1	1595.6	1627.1	1572.1	1564.7	1539.6	1138.0
62.5°	182.8	192.7	276.0	478.1	724.8	969.8	1037.4	1014.9	966.7	900.7	589.1
65°	86.9	93.2	137.2	223.6	321.5	404.3	471.8	492.8	363.4	327.3	194.3
67.5°	59.2	63.9	100.0	127.8	114.7	119.9	156.1	145.1	85.4	72.8	53.9
70°	45.0	48.2	80.1	86.9	51.3	36.1	40.3	37.7	35.1	35.6	35.1
72.5°	31.9	34.6	58.7	51.3	22.5	16.8	21.5	25.7	25.7	25.7	25.1
75°	19.4	22.0	34.0	19.9	8.9	8.9	13.6	17.3	18.3	18.9	17.8
77.5°	9.9	12.6	11.5	5.8	5.8	6.8	9.9	12.0	13.1	13.1	12.6
80°	2.1	2.1	2.1	3.1	5.8	7.3	9.9	11.0	12.6	12.6	11.5
82.5°	0.0	0.5	1.6	3.1	5.2	6.8	9.4	11.0	12.6	13.1	12.0
85°	0.0	0.5	1.0	2.1	3.7	4.2	3.7	3.1	3.1	3.1	3.1
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°	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0	753.0
2.5°	760.4	762.0	759.3	758.8	756.7	763.0	747.8	744.1	753.6	744.7	746.8
5°	770.3	774.0	769.3	761.4	749.9	732.1	716.9	697.0	687.6	680.8	679.7
7.5°	777.7	780.3	775.6	750.4	715.9	670.8	637.3	612.7	593.3	587.6	578.1
10°	807.5	808.0	784.5	729.0	661.4	602.2	550.9	513.2	493.8	481.8	476.5
12.5°	827.4	826.4	778.7	686.5	596.5	517.9	459.3	413.7	395.9	390.1	386.5
15°	852.5	846.8	765.1	643.1	512.7	427.8	375.0	343.5	342.0	338.3	342.0
17.5°	872.4	856.2	745.2	564.0	432.6	352.4	317.9	320.0	324.2	327.8	328.3
20°	904.9	871.4	699.6	494.9	358.2	302.2	301.6	311.1	321.5	325.7	329.9
22.5°	929.5	877.7	650.9	421.0	297.4	281.7	290.6	304.8	312.6	316.8	323.1
25°	938.4	860.4	586.0	347.2	268.1	272.3	285.9	295.4	305.3	310.0	307.4
27.5°	947.3	851.5	508.5	285.9	252.4	266.0	277.5	287.0	290.1	296.4	300.6
30°	968.8	820.6	438.8	247.2	244.6	261.8	270.2	273.4	281.7	285.4	285.4
32.5°	986.1	808.6	365.0	228.8	243.5	263.9	265.0	265.0	266.0	263.4	262.4
35°	1021.7	767.2	299.0	217.8	243.0	264.5	267.1	258.2	234.1	224.7	222.0
37.5°	1065.7	740.5	250.3	215.2	246.7	270.7	274.9	241.4	210.0	194.8	192.2
40°	1119.1	721.6	218.4	214.2	255.0	285.4	272.8	228.3	187.5	165.5	164.4
42.5°	1181.4	704.3	196.9	213.7	265.5	300.6	270.7	217.3	164.4	149.8	151.9
45°	1231.2	694.9	182.2	210.0	269.2	309.5	272.3	197.9	155.0	145.6	146.6
47.5°	1269.9	675.0	170.2	203.7	268.6	312.6	258.2	190.1	150.3	152.9	155.5
50°	1271.0	648.3	155.0	190.1	260.8	306.9	241.9	182.8	149.2	160.2	165.5
52.5°	1256.8	610.6	138.8	170.7	242.5	287.0	227.3	179.6	144.5	143.5	149.8
55°	1206.6	539.9	111.5	138.3	204.8	236.7	214.2	173.9	130.4	118.4	119.4
57.5°	975.1	387.0	82.2	99.0	145.1	173.3	193.2	171.2	117.3	100.5	101.1
60°	603.8	219.4	60.2	67.6	89.5	105.3	156.6	159.2	104.7	84.8	83.8
62.5°	310.0	108.4	46.6	47.7	55.0	61.8	107.4	133.5	94.8	80.6	80.6
65°	103.7	53.4	40.8	36.7	36.7	38.2	64.9	92.7	80.1	67.6	67.6
67.5°	44.5	39.8	35.6	31.9	29.3	27.8	36.7	53.9	59.7	51.3	49.2
70°	34.6	33.5	30.9	26.7	23.0	20.9	21.5	27.8	34.0	33.0	31.9
72.5°	25.7	25.7	24.6	20.9	17.8	15.2	14.1	14.7	16.2	16.8	17.3
75°	17.8	18.3	18.3	16.2	13.1	11.0	9.4	7.9	6.3	5.2	4.7
77.5°	12.0	12.6	13.6	12.0	9.9	7.3	5.8	4.2	2.6	1.0	1.0
80°	10.5	12.0	13.1	12.0	10.5	7.9	5.8	3.1	1.6	0.0	0.0
82.5°	11.0	12.0	13.6	11.5	9.9	7.3	5.8	3.7	1.6	0.5	0.0
85°	2.6	2.6	3.1	3.7	4.7	5.2	4.2	2.6	1.6	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)