

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: P526941

Luminaire Tested: **GALN-SA1D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526941
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-SA1D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA 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: 4114 lumens
Efficiency: N/A
Efficacy: 63.3 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): 65
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

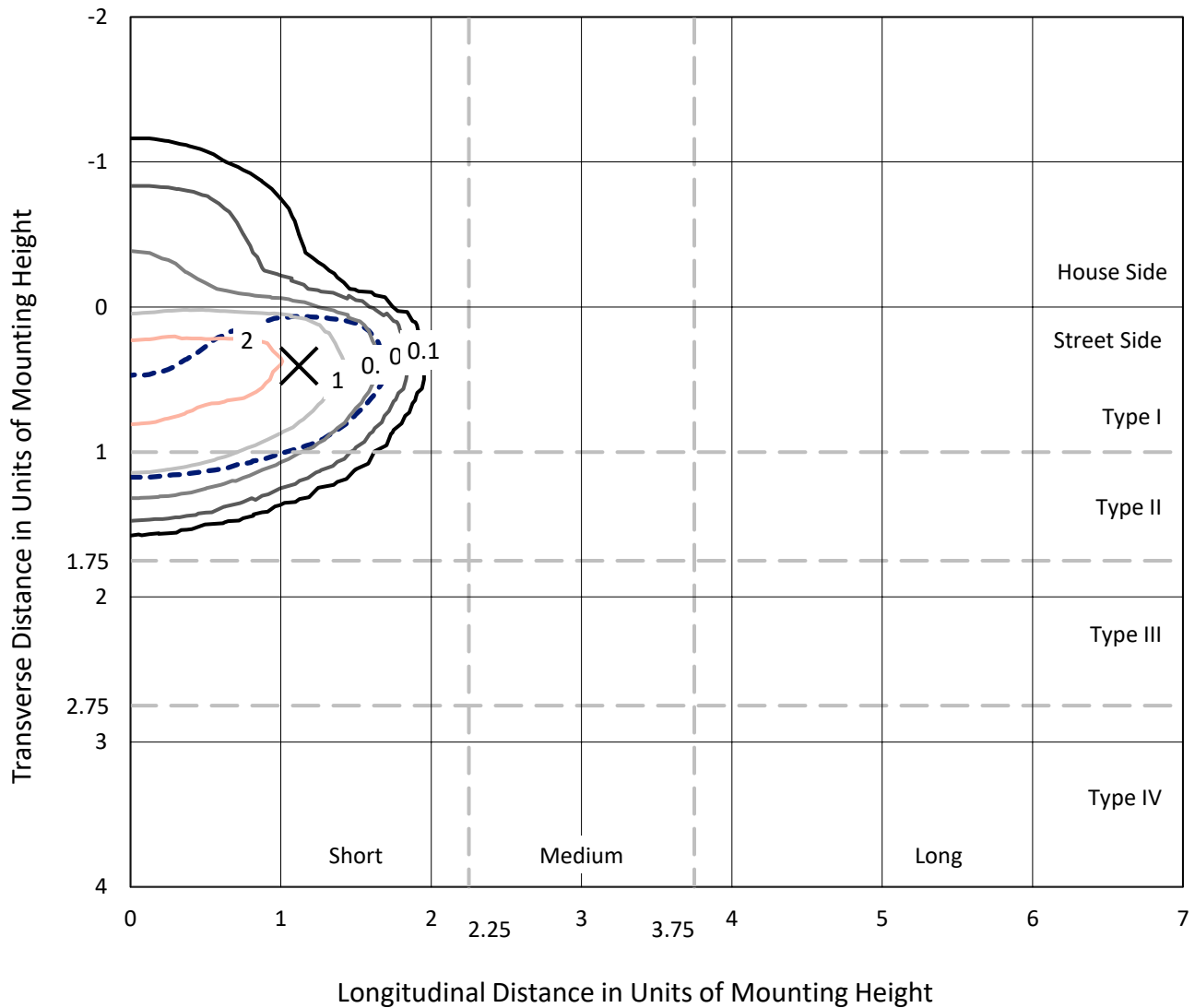


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

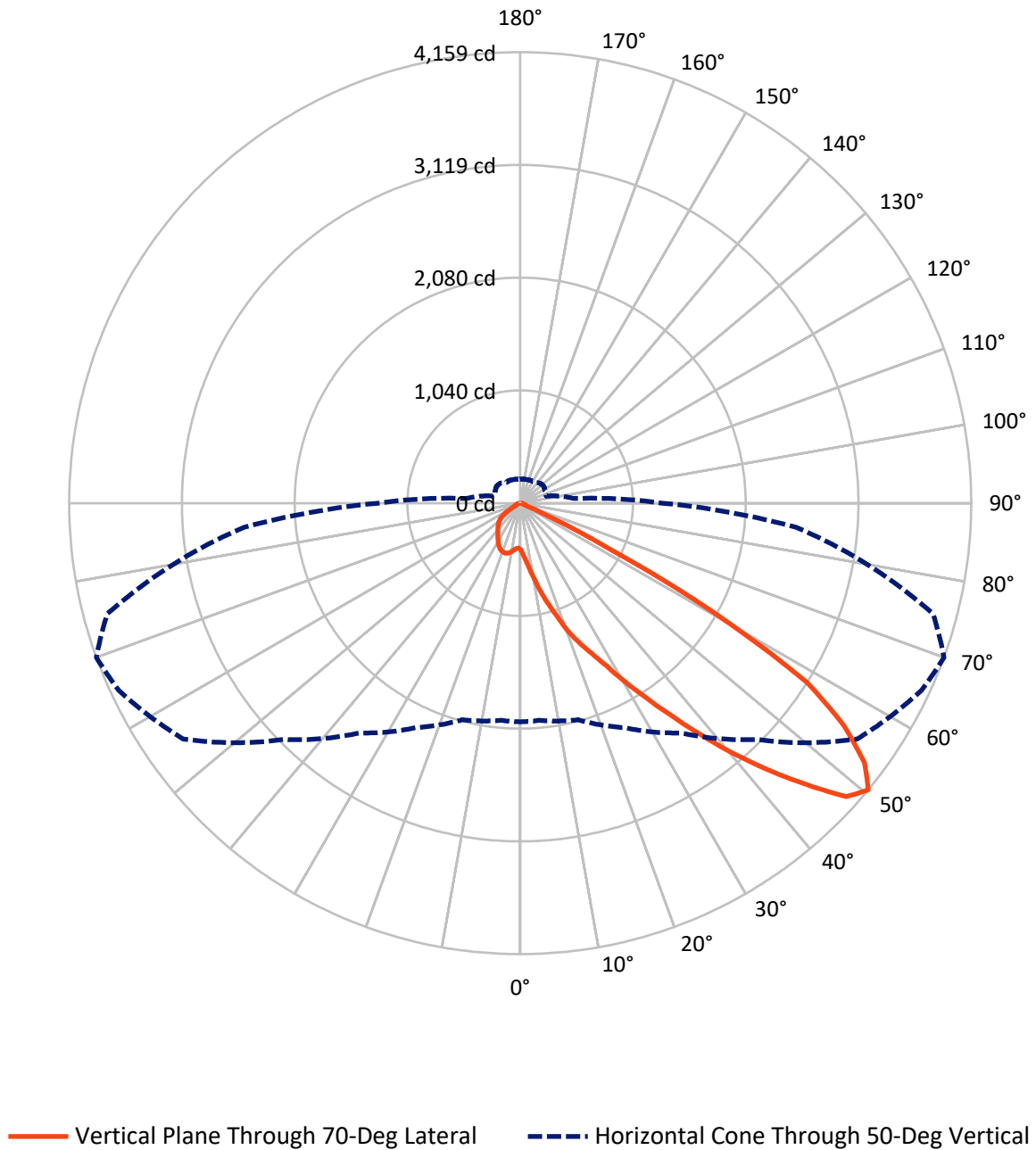


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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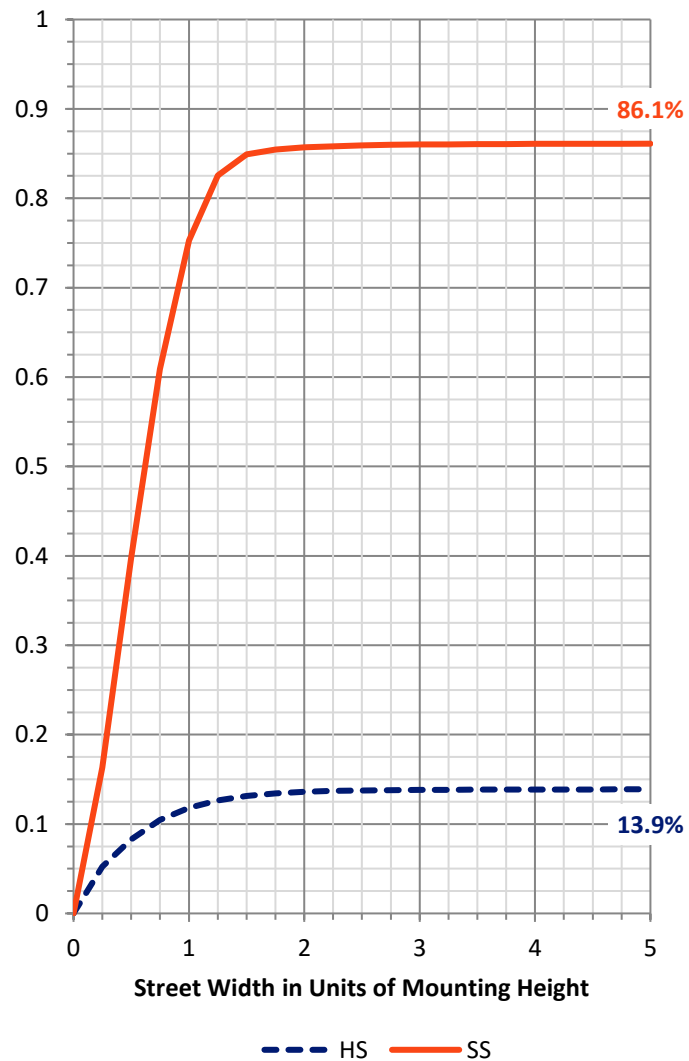
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	574.6	0.0	574.6
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	3539.5	0.0	3539.5
	% Fixture	86.0	0.0	86.0
Total	Lumens	4114.0	0.0	4114.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.4	1.3
10°-20°	239.7	5.8
20°-30°	502.8	12.2
30°-40°	866.7	21.1
40°-50°	1266.7	30.8
50°-60°	986.6	24.0
60°-70°	167.2	4.1
70°-80°	23.0	0.6
80°-90°	6.0	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°	4114.0	100.0
0°-180°	4114.0	100.0

Coefficient of Utilization



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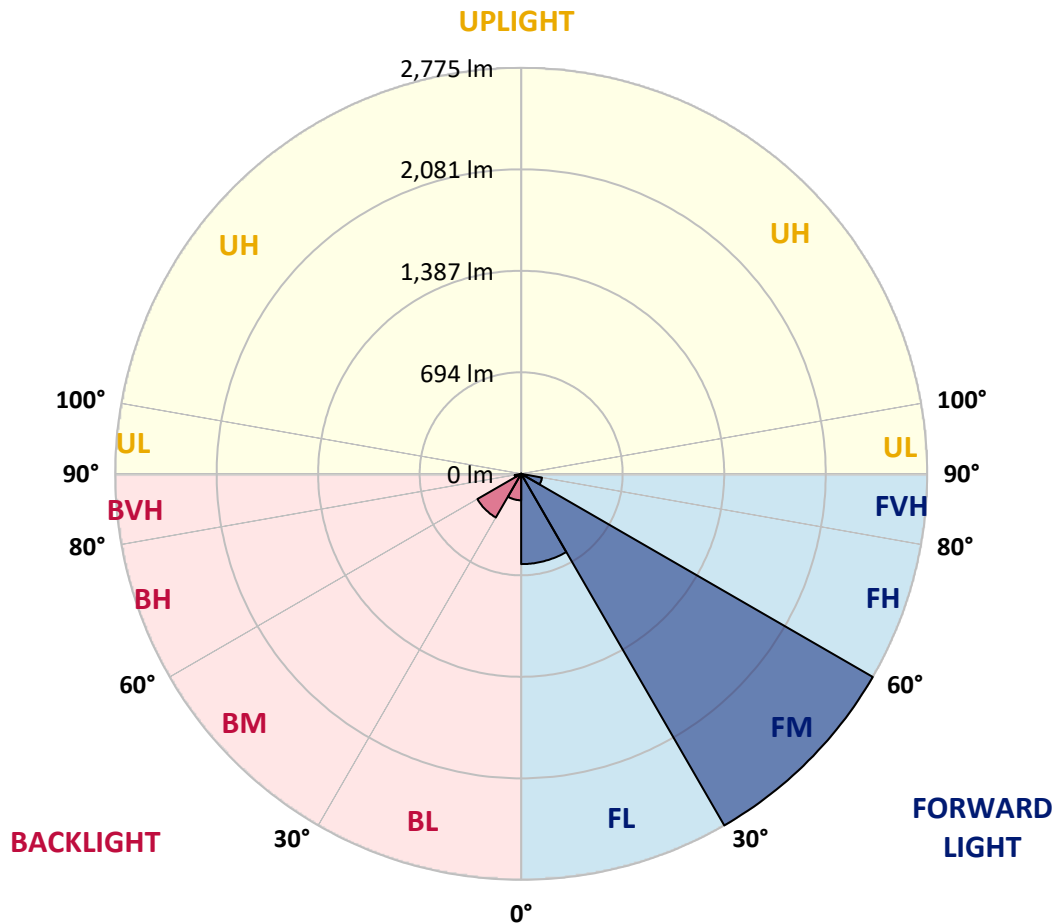
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	617.1	15.0			
FM	(30°-60°)	2774.8	67.4			
FH	(60°-80°)	144.7	3.5			G0/660
FVH	(80°-90°)	2.8	0.1			G0/10
BL	(0°-30°)	180.8	4.4	B1/500		
BM	(30°-60°)	345.2	8.4	B1/1000		
BH	(60°-80°)	45.4	1.1	B0/110		G0/110
BVH	(80°-90°)	3.2	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°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
2.5°	558.0	554.0	545.2	528.9	522.2	505.9	496.5	478.2	466.7	453.9	439.7
5°	786.0	765.0	752.2	733.9	680.5	647.3	592.5	545.9	524.2	500.5	468.1
7.5°	1021.4	1007.8	990.2	951.0	914.5	845.5	751.5	648.7	604.7	564.1	499.9
10°	1216.2	1178.3	1176.3	1147.2	1107.3	1024.7	911.8	783.9	705.5	646.0	545.2
12.5°	1352.1	1317.6	1333.2	1329.8	1292.6	1216.8	1086.3	917.2	835.3	742.7	591.8
15°	1475.9	1461.7	1457.0	1452.9	1438.0	1381.9	1264.9	1079.5	961.2	849.6	644.6
17.5°	1597.0	1560.4	1578.0	1581.4	1580.1	1529.3	1419.8	1233.7	1094.4	962.5	700.1
20°	1704.5	1707.9	1684.2	1679.5	1675.4	1673.4	1566.5	1386.6	1258.1	1080.9	772.4
22.5°	1842.5	1818.8	1839.8	1826.3	1799.9	1783.7	1701.8	1521.9	1400.1	1223.6	846.2
25°	2005.5	2024.5	1975.1	1969.7	1940.6	1884.4	1810.7	1673.4	1536.8	1356.2	926.0
27.5°	2206.4	2173.3	2160.4	2130.6	2077.9	2054.2	1967.6	1829.7	1701.8	1495.5	1003.1
30°	2378.9	2370.1	2305.8	2270.7	2224.7	2224.0	2102.9	2041.4	1916.9	1714.0	1109.3
32.5°	2519.6	2481.0	2457.3	2433.0	2395.8	2405.9	2303.8	2271.3	2146.2	1916.9	1234.4
35°	2613.6	2585.9	2571.7	2534.5	2523.6	2569.0	2526.3	2512.8	2410.0	2202.3	1381.2
37.5°	2643.4	2652.1	2649.4	2602.8	2625.8	2748.2	2803.0	2767.8	2713.7	2503.3	1540.2
40°	2669.7	2675.8	2662.3	2717.1	2782.7	2922.0	3120.2	3062.0	3041.8	2808.4	1761.3
42.5°	2684.6	2679.9	2679.9	2774.6	2874.0	3154.0	3426.6	3388.1	3372.5	3133.1	2017.0
45°	2620.4	2574.4	2623.7	2752.3	2952.5	3268.3	3671.5	3724.9	3702.6	3519.3	2316.0
47.5°	2380.2	2408.6	2436.4	2608.2	2857.1	3233.2	3821.6	4003.6	4044.8	3844.0	2512.1
50°	2017.0	2010.9	2068.4	2284.9	2587.2	3081.7	3792.6	4084.1	4159.2	3941.4	2553.4
52.5°	1467.1	1511.7	1574.0	1789.1	2147.6	2689.3	3417.2	3876.4	3976.5	3821.6	2526.3
55°	854.3	804.9	944.9	1126.9	1465.1	2028.5	2888.9	3436.1	3621.4	3603.8	2389.7
57.5°	342.3	331.4	379.5	511.4	764.3	1257.4	2100.9	2823.3	3120.2	3300.8	2100.2
60°	150.2	146.8	172.5	208.3	312.5	579.7	1149.2	1755.9	2065.7	2306.5	1445.5
62.5°	108.2	106.9	119.7	132.6	165.0	252.3	482.9	707.5	882.0	1065.3	647.3
65°	87.3	90.6	99.4	106.2	121.8	140.0	170.5	196.8	241.5	250.3	142.7
67.5°	71.0	73.7	81.8	89.3	92.0	75.8	78.5	69.0	69.0	61.6	49.4
70°	52.1	52.8	62.2	71.0	56.8	30.4	53.4	53.4	48.0	46.0	41.9
72.5°	38.6	39.2	46.7	44.0	22.3	18.9	39.2	43.3	39.2	37.2	33.8
75°	28.4	29.1	24.4	10.1	9.5	12.2	23.0	29.8	28.4	27.7	25.7
77.5°	5.4	4.1	3.4	4.7	6.8	10.1	14.9	18.3	18.9	20.3	18.9
80°	0.7	0.7	2.0	4.1	7.4	10.8	15.6	17.6	18.3	18.9	17.6
82.5°	0.0	0.7	2.0	4.1	7.4	10.1	13.5	15.6	16.9	17.6	16.9
85°	0.0	0.7	1.4	3.4	6.1	7.4	6.8	4.7	4.1	4.7	3.4
87.5°	0.0	0.0	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1	426.1
2.5°	431.5	428.8	419.4	409.2	400.4	404.5	400.4	397.0	398.4	397.0	395.7
5°	455.2	443.0	422.7	414.0	406.5	405.8	403.8	403.1	403.8	403.8	397.7
7.5°	477.5	457.9	436.3	426.8	418.0	418.7	414.0	414.0	413.3	409.9	408.5
10°	511.4	485.0	457.2	440.3	429.5	427.5	422.7	418.0	418.0	418.0	411.2
12.5°	548.6	515.4	477.5	457.9	445.1	434.9	427.5	426.1	418.7	417.3	414.0
15°	581.0	539.1	491.1	464.0	447.8	434.2	422.7	415.3	411.9	409.9	407.2
17.5°	612.8	559.4	498.5	464.0	446.4	430.9	418.7	411.9	403.8	405.2	399.7
20°	655.4	581.0	500.5	455.2	433.6	418.7	402.5	399.1	394.3	390.3	391.6
22.5°	696.7	596.6	494.4	444.4	413.3	395.7	387.6	383.5	381.5	378.1	373.4
25°	733.9	613.5	485.0	424.8	391.6	378.8	371.3	370.7	365.9	365.9	357.1
27.5°	771.8	619.6	468.7	401.8	372.7	365.3	361.9	360.5	358.5	353.8	347.7
30°	815.1	621.6	445.1	378.1	355.8	347.7	352.4	355.8	347.0	338.2	340.9
32.5°	850.9	616.9	416.7	355.8	343.6	339.6	349.0	352.4	342.3	332.8	328.1
35°	894.2	605.4	388.9	338.2	331.4	339.6	347.7	347.7	327.4	315.9	313.2
37.5°	959.8	592.5	363.2	323.3	318.6	335.5	346.3	338.9	307.1	292.9	289.5
40°	1030.2	584.4	338.2	308.4	311.8	328.7	334.8	311.8	279.4	270.6	267.9
42.5°	1132.3	568.2	315.9	295.6	305.7	319.3	319.3	278.0	265.8	261.1	260.4
45°	1259.4	556.7	296.3	284.8	296.9	300.3	289.5	260.4	251.6	250.3	250.9
47.5°	1321.7	534.4	276.0	271.9	280.7	281.4	253.0	246.2	238.8	236.7	235.4
50°	1312.2	494.4	249.6	255.0	267.2	260.4	230.7	232.0	225.2	224.6	221.2
52.5°	1245.9	431.5	223.2	236.1	249.6	230.0	212.4	211.0	211.0	202.2	198.9
55°	1104.6	347.7	191.4	207.7	223.9	193.4	188.7	187.4	184.0	175.9	173.8
57.5°	874.6	255.0	144.1	161.7	190.1	164.4	163.7	157.6	148.8	142.7	142.7
60°	520.1	146.8	90.6	98.8	125.8	133.2	148.1	145.4	130.5	121.1	118.4
62.5°	237.4	75.8	57.5	58.8	67.6	86.6	116.3	134.6	113.6	97.4	96.0
65°	79.8	56.1	47.3	45.3	46.7	52.1	69.7	95.4	90.6	75.1	72.4
67.5°	48.7	50.1	44.6	41.3	41.3	40.6	39.9	43.3	53.4	52.1	52.8
70°	41.9	46.0	41.3	37.2	35.8	33.8	28.4	23.7	20.3	23.7	25.0
72.5°	33.8	36.5	35.2	31.8	28.4	25.7	20.3	15.6	11.5	10.1	10.1
75°	25.0	27.1	28.4	24.4	21.6	18.3	14.9	10.1	6.1	4.1	4.1
77.5°	18.3	20.3	21.0	18.9	16.2	12.9	9.5	6.8	3.4	1.4	1.4
80°	15.6	18.3	20.3	18.9	16.9	12.2	8.8	4.7	2.7	0.7	0.7
82.5°	14.9	18.3	20.3	18.3	16.2	11.5	8.8	5.4	2.0	0.7	0.7
85°	3.4	4.7	6.1	7.4	8.8	8.8	6.8	4.1	2.0	0.7	0.7
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.7	0.7	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)