

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: P270184

Luminaire Tested: **GWC-AF-01-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270184
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-01-LED-E1-T4FT-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6096 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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: 25 FT

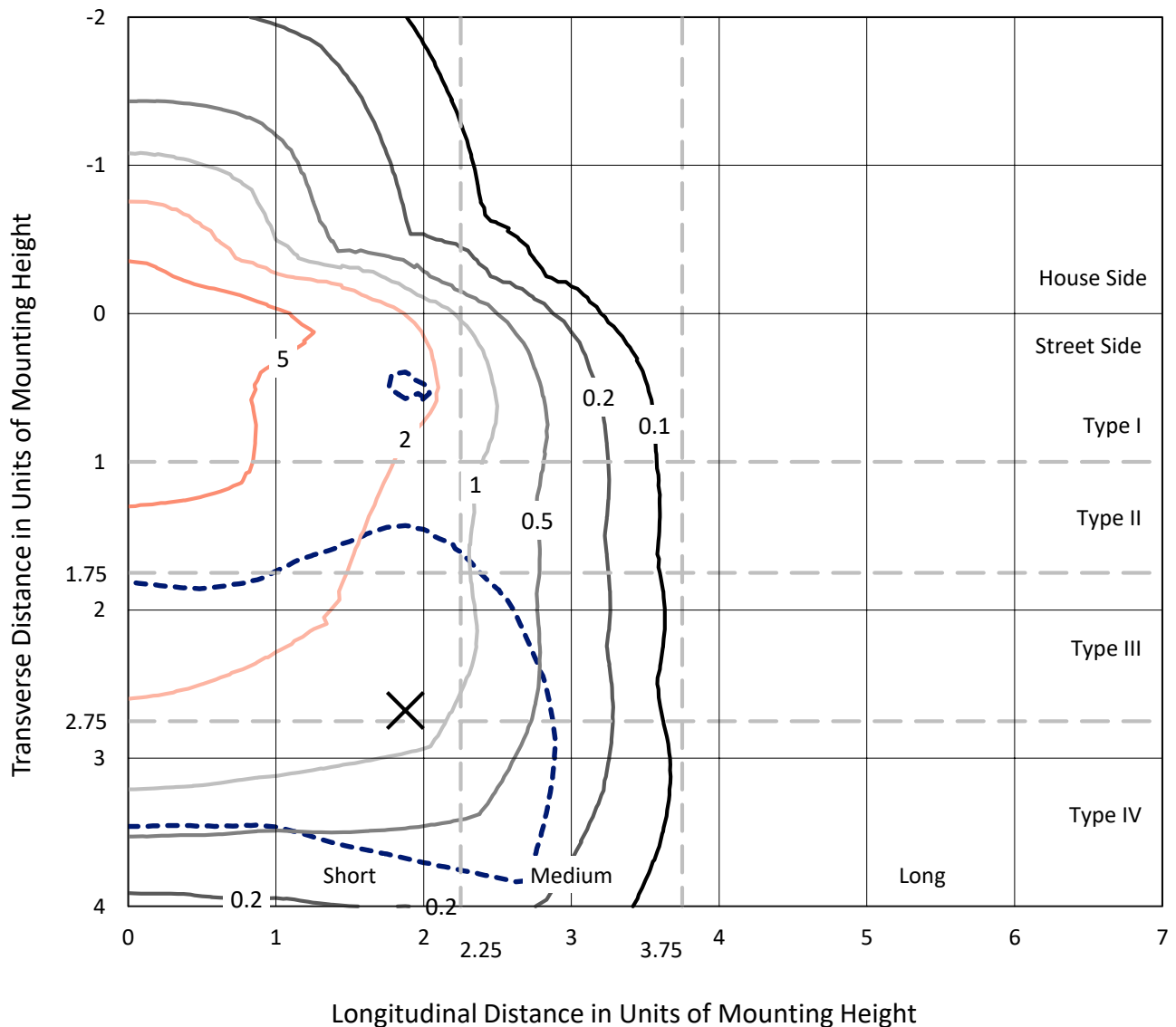


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Iso-Footcandle Lines of Horizontal Illumination

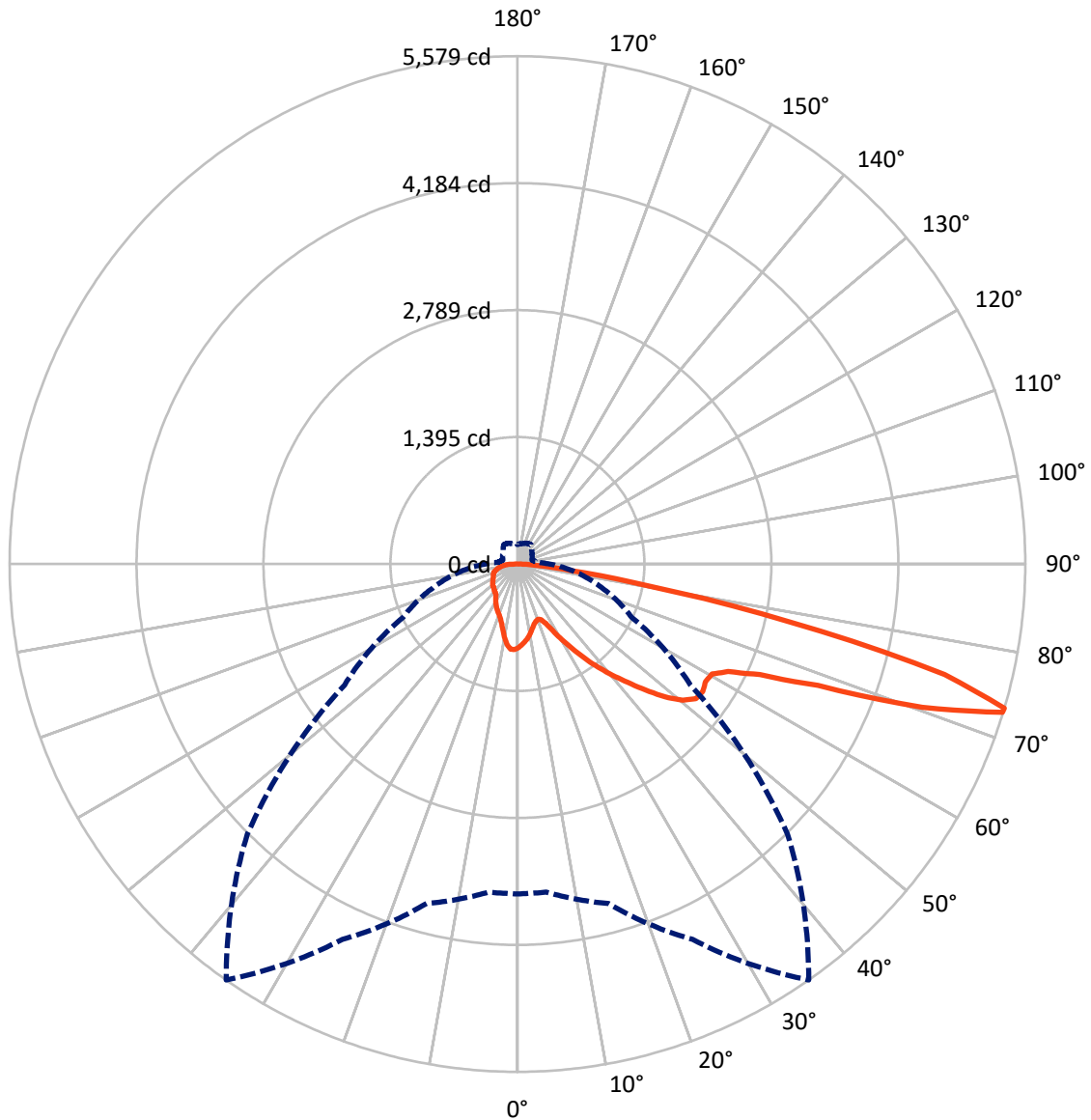
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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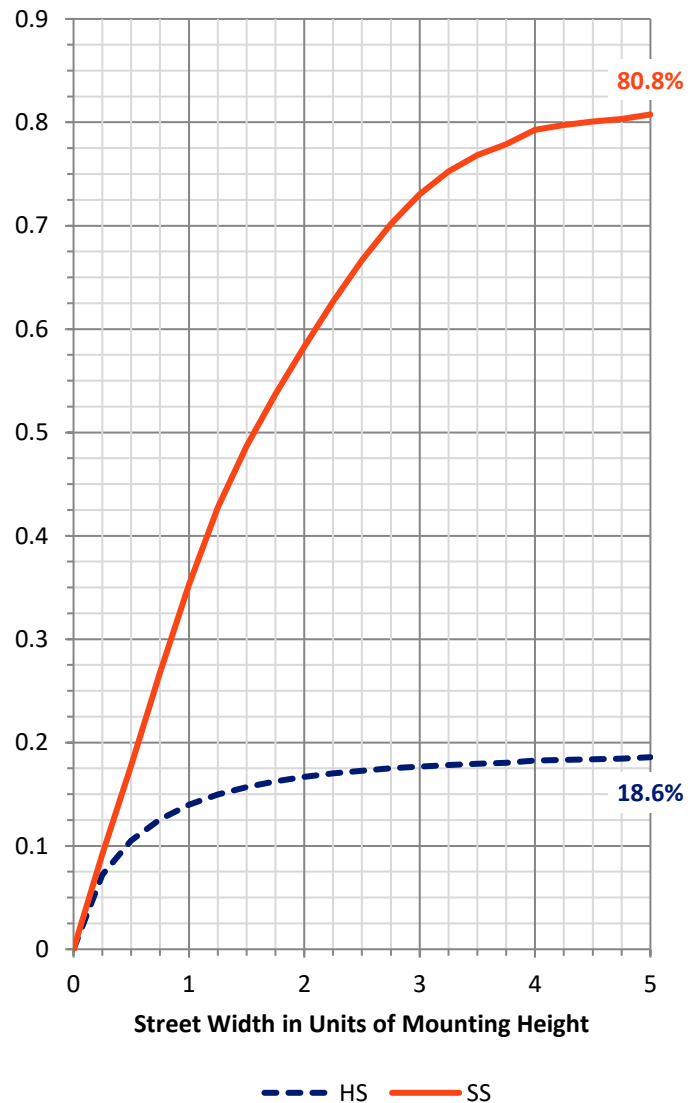
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1162.6	0.0	1162.6
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	4933.3	0.0	4933.3
	% Fixture	80.9	0.0	80.9
Total	Lumens	6096.0	0.0	6096.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	1.4
10°-20°	207.9	3.4
20°-30°	336.1	5.5
30°-40°	563.6	9.2
40°-50°	868.7	14.3
50°-60°	1165.4	19.1
60°-70°	1552.6	25.5
70°-80°	1184.2	19.4
80°-90°	134.2	2.2
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°	6096.0	100.0
0°-180°	6096.0	100.0

Coefficient of Utilization



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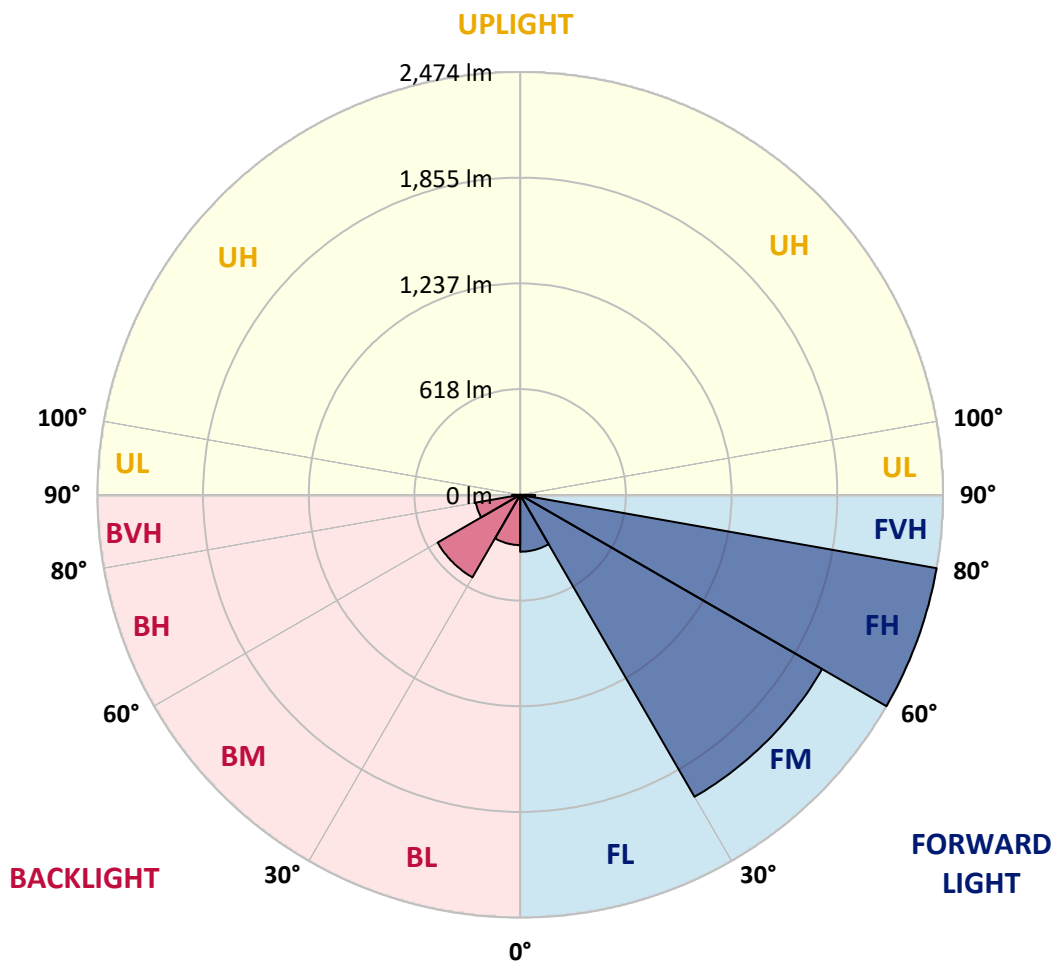
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.0	5.5			
FM	(30°-60°)	2039.8	33.5			
FH	(60°-80°)	2473.8	40.6			G2/5000
FVH	(80°-90°)	86.8	1.4			G1/100
BL	(0°-30°)	294.2	4.8	B1/500		
BM	(30°-60°)	557.9	9.2	B1/1000		
BH	(60°-80°)	263.0	4.3	B1/500		G1/500
BVH	(80°-90°)	47.5	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2.5°	883.8	885.5	883.6	886.1	890.5	895.3	898.5	903.1	908.4	915.7	917.3
5°	842.3	844.9	844.9	849.5	858.1	865.6	872.7	880.2	891.4	904.0	908.9
7.5°	796.5	798.1	800.6	807.7	820.0	830.8	840.8	853.0	868.2	884.9	893.8
10°	741.6	743.5	747.7	757.6	774.2	789.3	803.5	820.5	839.8	860.7	871.7
12.5°	702.6	701.9	703.7	711.1	725.7	743.8	764.6	786.2	810.0	834.3	847.8
15°	689.4	686.1	679.5	677.7	685.5	703.7	727.7	754.3	782.8	812.1	828.7
17.5°	697.7	692.1	673.5	660.2	658.9	672.7	698.3	728.0	760.9	796.5	817.3
20°	749.0	735.9	690.5	659.3	648.3	655.1	677.4	709.0	747.7	795.1	821.7
22.5°	872.3	853.0	756.7	698.4	662.0	653.6	670.3	704.0	749.0	813.2	847.2
25°	1051.8	1024.2	870.3	796.3	720.7	677.1	680.9	715.4	769.8	855.4	896.4
27.5°	1193.5	1175.6	1018.7	934.1	827.9	740.4	715.2	744.2	812.3	924.4	966.3
30°	1277.7	1267.0	1177.4	1090.5	964.6	841.1	780.7	798.1	878.8	1020.1	1054.7
32.5°	1375.6	1369.1	1325.2	1245.3	1112.1	973.4	884.7	878.5	967.7	1135.3	1151.1
35°	1476.9	1474.7	1449.1	1391.7	1270.6	1147.9	1022.5	980.9	1064.8	1254.7	1244.7
37.5°	1571.1	1567.6	1552.7	1519.4	1436.2	1335.2	1163.0	1086.1	1169.2	1368.8	1324.6
40°	1744.7	1717.2	1665.9	1640.8	1603.7	1493.0	1274.5	1184.1	1277.5	1477.7	1393.7
42.5°	1956.4	1911.6	1816.2	1781.6	1776.3	1617.4	1350.7	1279.2	1386.8	1585.8	1461.6
45°	2123.0	2080.7	1998.5	1954.9	1974.3	1730.0	1427.0	1380.9	1499.1	1699.1	1531.6
47.5°	2300.6	2234.4	2125.6	2138.8	2180.8	1836.7	1505.0	1490.0	1622.3	1825.8	1618.6
50°	2307.0	2256.5	2208.8	2287.4	2353.0	1934.7	1602.4	1604.6	1773.2	1985.3	1734.2
52.5°	2173.3	2162.5	2238.2	2362.2	2456.7	2012.3	1713.3	1722.8	1966.0	2168.6	1861.2
55°	2126.5	2114.2	2201.7	2336.0	2470.7	2076.4	1833.7	1850.7	2199.3	2361.9	1985.1
57.5°	2240.6	2213.3	2219.3	2323.7	2436.5	2146.6	1964.9	1999.1	2452.8	2530.7	2064.7
60°	2559.7	2501.4	2390.7	2388.1	2454.9	2252.1	2116.4	2158.4	2716.4	2611.6	2033.7
62.5°	3007.3	2949.0	2741.7	2606.8	2596.9	2426.0	2302.6	2313.9	2868.6	2502.0	1844.2
65°	3491.8	3439.7	3208.0	3017.5	2925.6	2714.0	2518.9	2383.2	2818.8	2200.8	1512.8
67.5°	4079.9	4024.0	3825.0	3648.9	3560.5	3178.8	2670.9	2316.6	2502.9	1705.0	1087.5
70°	4491.2	4434.2	4355.6	4498.3	4714.6	3849.4	2690.6	2046.5	1869.5	1133.2	654.5
72.5°	3954.6	3928.0	4071.1	4671.5	5572.5	4256.3	2432.0	1490.0	1085.7	601.5	378.7
73°	3623.3	3617.4	3861.5	4550.1	5578.7	4193.7	2318.7	1384.9	931.3	532.2	346.2
75°	1636.2	1683.2	2218.4	3475.4	4846.9	3455.8	1632.0	794.6	526.0	367.6	261.3
77.5°	393.2	409.5	694.1	1650.5	3060.9	2059.5	739.5	392.9	336.3	259.7	190.9
80°	167.4	173.1	267.2	609.8	1441.2	829.3	340.7	263.2	232.8	181.2	133.8
82.5°	93.1	99.0	151.6	276.7	581.7	282.7	207.9	183.3	153.2	109.2	87.0
85°	52.7	56.0	88.8	154.6	246.4	113.5	124.4	121.8	86.3	56.2	42.7
87.5°	25.0	26.9	42.7	71.8	96.6	44.5	63.2	69.7	54.2	34.2	22.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0	920.0
2.5°	919.4	924.7	931.0	934.1	937.0	940.5	944.1	944.1	944.7	944.9
5°	913.0	923.8	933.6	937.7	938.5	938.5	937.7	933.0	928.8	930.6
7.5°	899.7	915.5	923.5	922.1	911.1	898.1	887.3	874.1	867.4	866.2
10°	880.2	898.5	899.9	885.2	857.7	830.3	807.3	785.1	774.6	772.0
12.5°	858.9	875.6	866.2	836.1	791.9	751.7	722.7	700.1	690.3	687.7
15°	841.6	853.0	829.3	782.0	726.3	683.8	659.9	643.1	636.1	634.1
17.5°	832.5	834.9	791.5	727.4	668.2	632.9	617.9	610.0	607.4	605.9
20°	837.0	820.5	755.6	676.9	620.9	596.0	592.5	590.5	589.8	589.0
22.5°	858.9	816.2	722.4	628.9	579.3	568.4	571.4	571.1	570.6	570.0
25°	898.1	820.0	690.3	583.1	544.6	542.1	547.3	547.3	545.1	545.1
27.5°	950.0	827.9	654.2	539.8	512.9	513.2	517.2	516.0	513.4	511.8
30°	1013.2	832.9	612.1	500.9	483.3	482.1	483.3	478.3	470.4	469.9
32.5°	1077.8	826.7	563.2	466.3	451.9	449.3	448.4	441.4	432.4	429.7
35°	1136.4	804.2	513.4	438.8	422.2	416.3	420.3	418.0	409.8	407.8
37.5°	1179.1	762.3	468.6	414.5	400.7	399.2	401.9	402.8	393.2	391.1
40°	1207.9	705.4	430.3	394.0	396.6	391.1	382.3	376.2	373.2	372.3
42.5°	1230.9	646.4	398.0	384.4	397.5	381.4	362.3	352.4	357.7	360.1
45°	1257.5	588.7	371.2	372.3	393.2	370.3	348.6	339.0	341.0	341.6
47.5°	1294.2	518.4	342.3	353.0	378.5	362.6	340.2	326.4	316.7	312.3
50°	1344.9	435.3	312.0	331.4	364.2	357.2	327.1	312.3	294.6	290.4
52.5°	1379.9	357.7	287.2	313.1	351.2	345.9	316.5	297.3	278.7	275.2
55°	1360.9	297.1	265.4	293.0	334.3	332.3	307.7	282.2	267.5	264.6
57.5°	1265.8	258.8	248.8	274.1	313.5	320.5	295.9	269.3	258.8	256.7
60°	1084.3	234.7	238.3	261.0	296.5	308.8	284.3	262.2	255.3	253.9
62.5°	841.4	218.6	230.3	251.7	283.3	300.7	277.8	261.3	258.8	257.1
65°	602.8	205.8	221.9	242.5	271.4	293.0	275.5	260.2	260.9	259.4
67.5°	409.5	194.4	211.6	231.9	259.7	286.3	272.2	256.1	263.5	261.6
70°	286.6	183.3	199.7	218.4	245.0	276.9	266.3	250.0	249.4	242.5
72.5°	223.7	168.6	183.3	199.7	226.4	263.7	254.7	236.3	226.6	219.2
73°	213.3	165.1	179.1	195.6	222.2	260.6	251.4	232.4	221.6	214.9
75°	176.5	149.8	162.8	177.3	204.6	245.2	235.6	215.1	201.4	197.3
77.5°	138.8	128.2	140.6	153.7	180.3	223.0	212.2	192.6	185.1	181.5
80°	102.8	106.3	117.0	128.7	156.3	199.3	189.7	170.0	204.1	195.6
82.5°	72.4	80.5	90.5	101.0	131.2	176.2	164.5	144.3	149.3	124.1
85°	42.7	52.7	62.1	71.1	94.5	146.1	135.9	115.1	94.2	89.9
87.5°	25.0	29.3	31.9	41.3	64.9	110.0	95.7	85.2	48.9	33.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)